



The DNA of tech.™

PCN-DD-039-2023

Change of Silicon Wafer and Package Material of Small Signal & ESD Diodes in SOT-23/SOD-123

Before/After Comparison

Henry Karrer, Sebastian Mugele, Jochen Krieger, Christina Stix

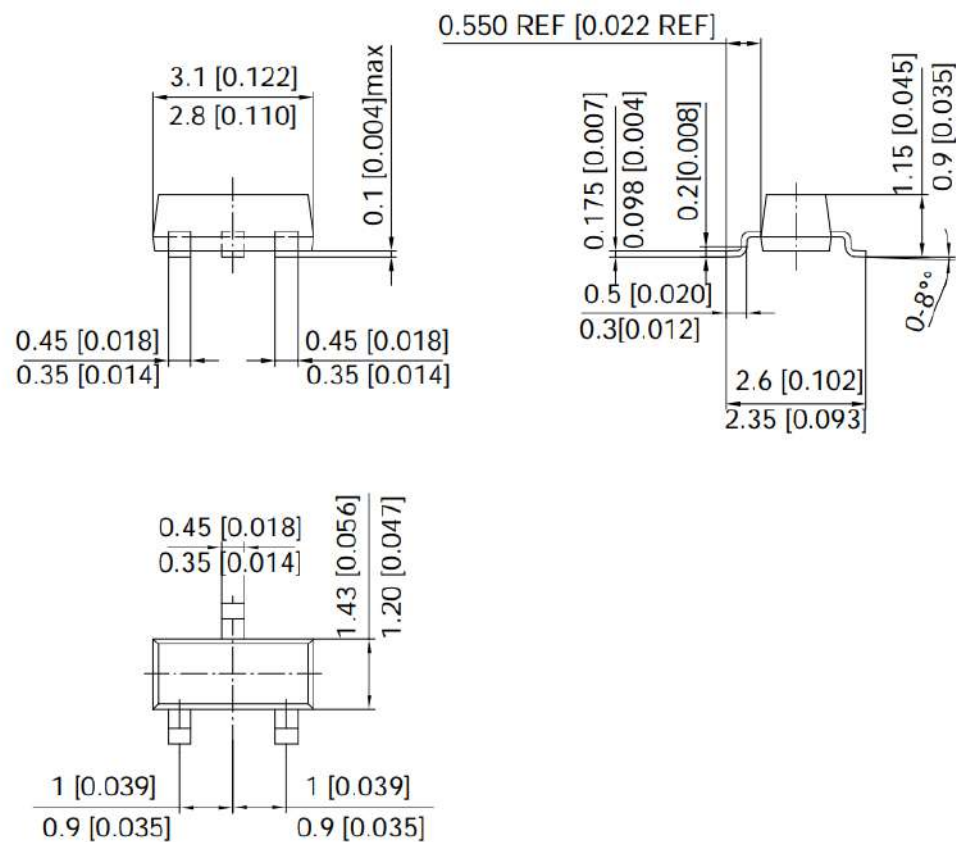
December 2023

Comparison table

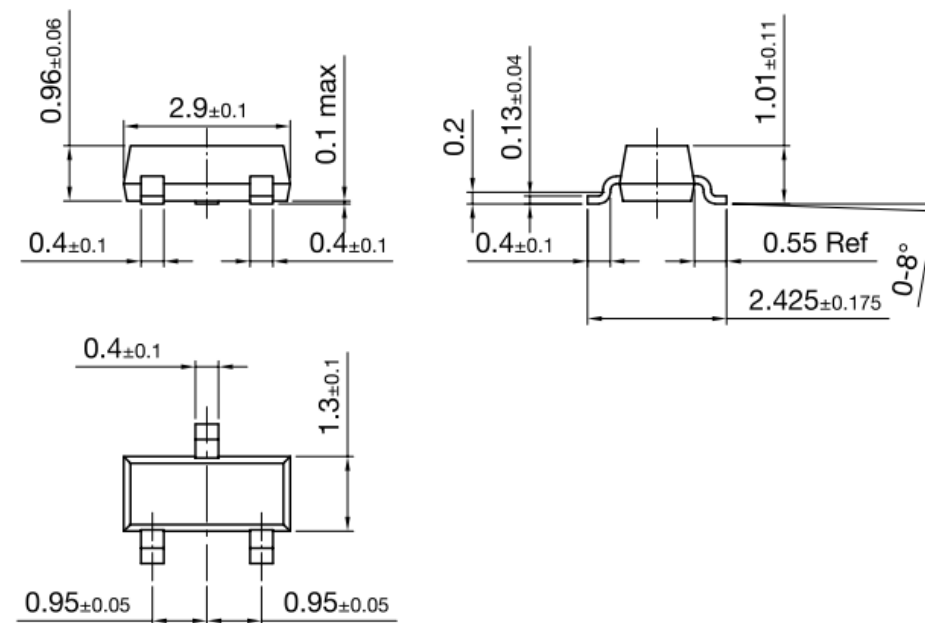
	OLD: Sw, SKY, ESD and MMBZ27	NEW: Sw, SKY, ESD and MMBZ27	NEW: Sw, SKY, ESD and MMBZ27	result
Qualification Level	Industrial and automotive qualification	Industrial qualification	automotive qualification	
Body marking	(H)E3 ... body marking code has changed (H)G3 ... body marking code has NOT changed			See also details in file Data sheet changes
Electrical characteristics (Sw, SKY and MMBZ27)		change in test condition for P_{tot} change in test condition for R_{thja}	change in test condition for P_{tot} change in test condition for R_{thja}	See also details in file Data sheet changes
Electrical characteristics (ESD)	No change			No change
Leadframe material	Alloy 42 (NiFe) with thin 0,2-1µm Copper (on Die attach Pad only)	Alloy 42 (NiFe) with 3-6µm Copper plated (all over leadframe)	Copper plated Alloy 42 (NiFe)	Improved R_{th}
Wafer technology	4" Planar Sw, 4" Planar SKY, MMBZ27 6" ESD	4" Planar Sw 6" Planar SKY, MMBZ27 No change	4" Planar Sw 6" Planar SKY, MMBZ27 No change	For details see „Detailed comparison 4" to 6" wafer" file
Wire bond material	Gold	AuPdCu/PdCu	AuPdCu/PdCu	Material content list see page 7,8 PdCu used for only (VCANxxA203S, MMBZ27, BAT42W)
POD (package outline dimensions) and Foot print	See page 3,4 & 5			POD is same in relevant dimensions for customers, adaption in some dimension which are related to manufacturing processes Foot print are exactly same No soldering issues expected.
Tape and Reel dimensions	See page 6			No change in reel and carrier tape
Material content list		Changes in leadframe, bonding wire and molding compound	Changes in leadframe, bonding wire and molding compound	For details see page 7 to 10

POD for SOT-23

OLD

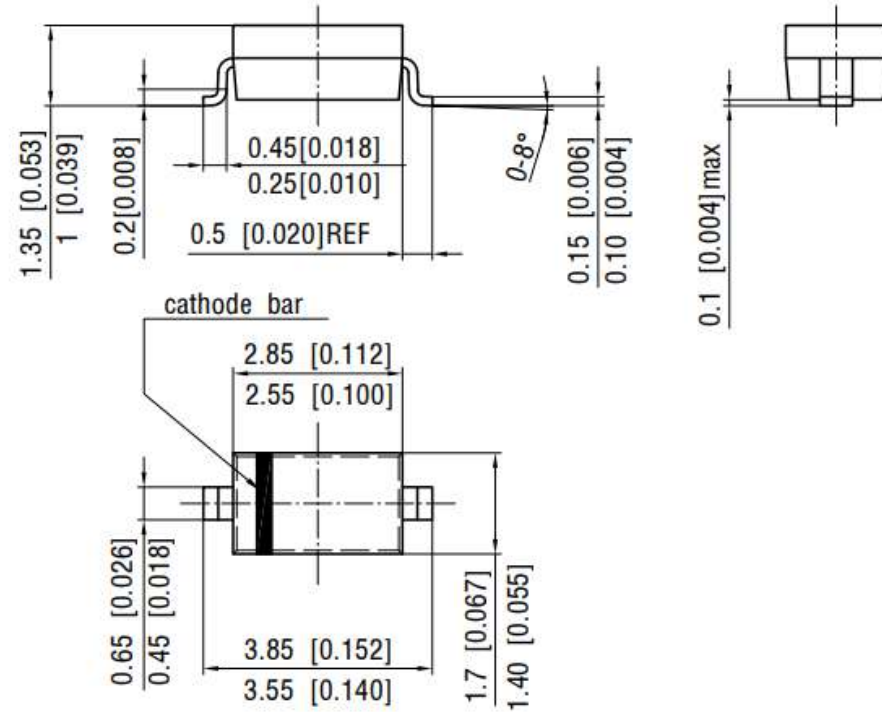


NEW

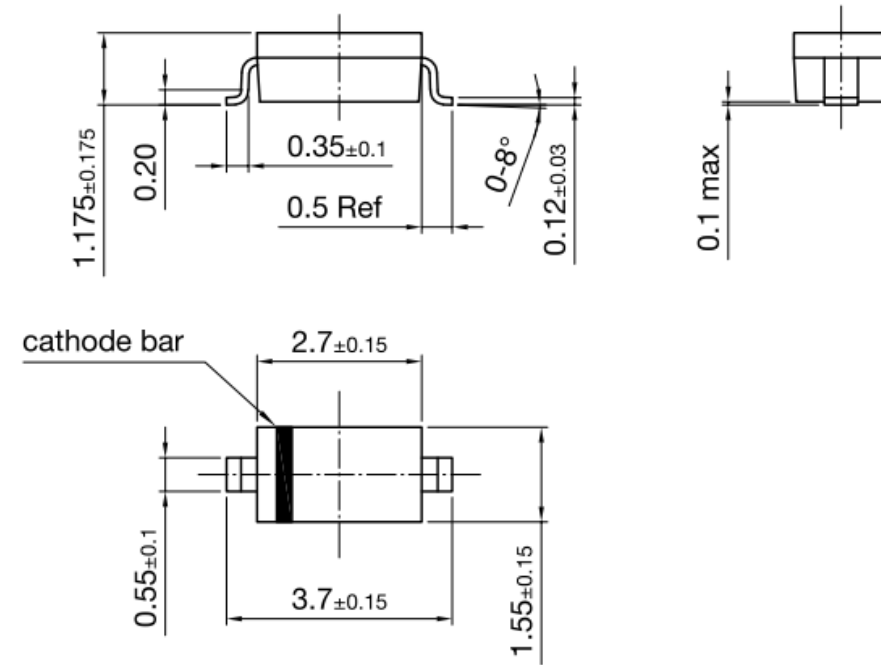


POD for SOD-123

OLD

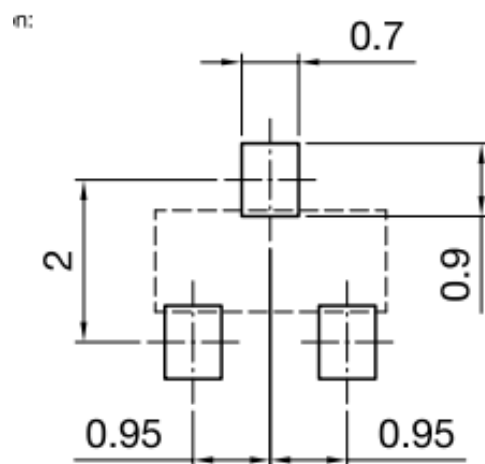


NEW

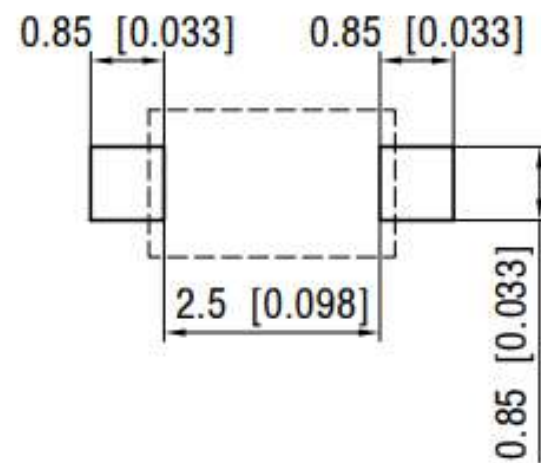


Footprint(no change)

SOT-23

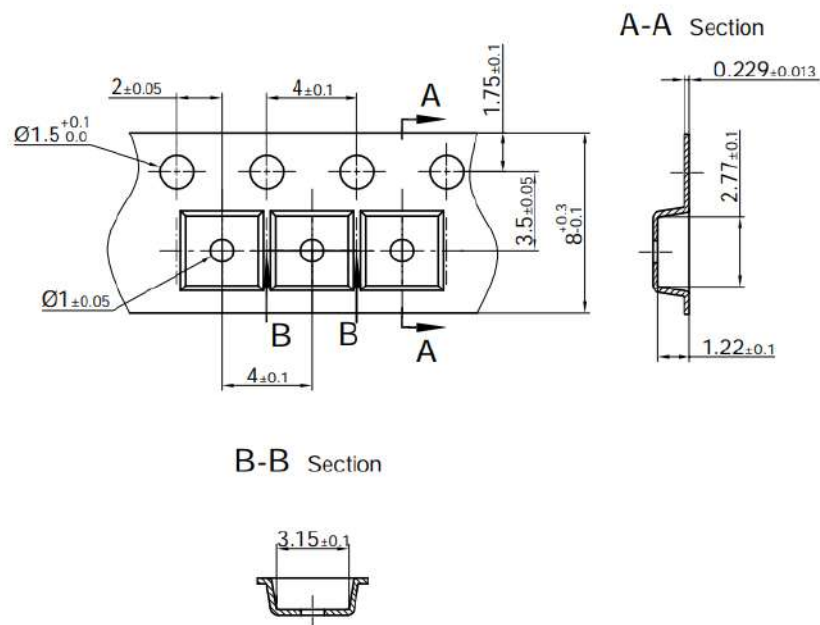


SOD-123

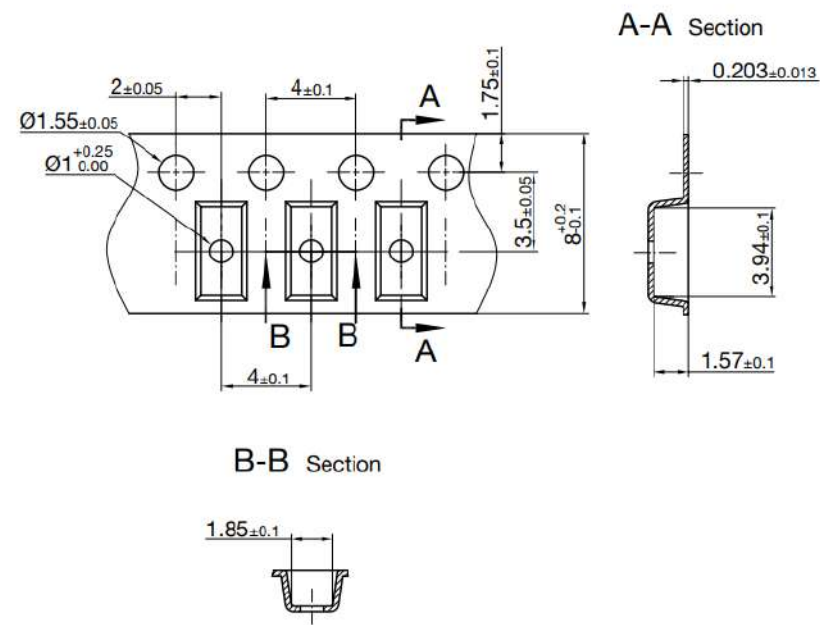


Tape & reel (no change)

SOT-23



SOD-123



Material content list (SOT-23)

OLD
(H)E3

MATERIAL CONTENT					
Part	Material	CAS N°	weight mg	% of weight	ppm of total weight
Mold	Silcon Fused	60676-86-0	5,02	74,0%	567508
compound	Cured polymer (epoxy + phenolic resin reacted)		1,63	24,0%	184057
	Antimony Trioxide	1309-64-4	0,07	1,0%	7669
	Carbon	7440-44-0	0,07	1,0%	7669
	TOTAL		6,79		
Lead frame	Si	7440-21-3	0,005	0,3%	565
20,0%	Mn	7439-96-5	0,013	0,7%	1468
	Ni	7440-02-0	0,74	41,5%	83015
	Co	7440-48-4	0,009	0,5%	1017
	Fe	7439-89-6	1,005	56,7%	113511
	Cr	7440-47-3	0,002	0,1%	226
	C	7440-44-0	0,0004	0,0%	45
	Cu	7440-50-8	0,002	0,1%	226
	TOTAL		1,7714		
L/F plating	Ag	7440-22-4	0,057	100,0%	6438
0,6%	TOTAL		0,057		
Terminal finish	Sn	7440-31-5	0,12	100,0%	13554
1,4%	TOTAL		0,12		
Silicon	Si	7440-21-3	0,092	99,6%	10391
chip	SiO2	14808-60-7	0,0004	0,4%	45
1,0%	TOTAL		0,0924		
Chip metall.	Au	7440-57-5	0,008	100,0%	904
0,1%	And / or traces of As, Ag, Ti, Al, Ni, Pd, Cu				
	TOTAL		0,008		
Bond wire	Au	7440-57-5	0,015	100,0%	1694
0,2%	TOTAL		0,015		
Total weight			8,854		

NEW
(H)E3

MATERIAL CONTENT					
Part	Material	CAS N°	weight mg	% of weight	ppm of total weight
Mold	Fused Silica	60676-86-0	4,8528	79,50%	529546
compound	Epoxy Resin	29690-82-2	0,6104	10,00%	66610
73,57%	Phenolic Resin	9003-35-4	0,6104	10,00%	66610
	Carbon Black	1333-86-4	0,0305	0,50%	3330
	TOTAL		6,7418		
Lead frame	Copper	7440-50-8	0,0021	0,10%	234
23,35%	Silicon	7440-21-3	0,0043	0,20%	467
	Manganese	7439-96-5	0,0086	0,40%	934
	Nickel	7440-02-0	0,8774	41,01%	95744
	Cobalt	7440-48-4	0,0064	0,30%	701
	Iron	7439-89-6	1,2391	57,91%	135210
	Phosphorus	7723-14-0	0,0002	0,01%	23
	Carbon	7440-44-0	0,0002	0,01%	23
	Sulfur	7704-34-9	0,0002	0,01%	23
	Chromium	7440-47-3	0,0011	0,05%	117
	TOTAL		2,1396		
L/F plating	Silver	7440-22-4	0,0004	100,00%	47
0,005%	TOTAL		0,0004		
Terminal finish	Sn	7440-31-5	0,1593	100,00%	17383
1,74%	TOTAL		0,1593		
Silicon	Si	7440-21-3	0,0920	99,57%	10039
chip	SiO2	14808-60-7	0,0004	0,43%	44
1,01%	TOTAL		0,0924		
Chip metal	Au	7440-57-5	0,0080	100,00%	873
0,09%	And / or traces of As, Ag, Ti, Al, Ni, Pd, Cu				
	TOTAL		0,0080		
Bond wire	Copper	7440-50-8	0,0220	98,00%	2402
0,25%	Palladium	7440-05-3	0,0004	1,79%	44
	Gold	7440-57-5	0,0000	0,20%	5
	Others (Au/Cu/Fe/Pd/Mo/Si)	N/A	0,0000	0,01%	0
	TOTAL		0,0225		
Total weight			9,1640		

Material content list (SOT-23)

OLD
(H)G3

MATERIAL CONTENT					
Part	Material	CAS N°	weight mg	% of weight	ppm of total weight
Mold	Silica, Fused	60676-86-0	4,8	79,6%	591220
compound	Cured polymer (epoxy + phenolic resin reacted)		1,2	19,9%	147805
74%	Carbon black	1333-86-4	0,03	0,5%	3695
	TOTAL		6,03		
Lead frame	Si	7440-21-3	0,005	0,3%	616
21,8%	Mn	7439-96-5	0,013	0,7%	1601
	Ni	7440-02-0	0,74	41,5%	90531
	Co	7440-48-4	0,009	0,5%	1109
	Fe	7439-89-6	1,005	56,7%	123787
	Cr	7440-47-3	0,002	0,1%	246
	C	7440-44-0	0,0004	0,0%	49
	Cu	7440-50-8	0,002	0,1%	246
	TOTAL		1,7714		
L/F plating	Ag	7740-22-4	0,057	100,0%	7021
0,7%	TOTAL		0,06		
Terminal finish	Sn	7440-31-5	0,13	100,0%	16012
1,6%	TOTAL		0,13		
Silicon	Si	7440-21-3	0,092	99,6%	11332
chip	SiO2	14808-60-7	0,0004	0,4%	49
1,1%			0,0924		
Chip metal	Au	7440-57-5	0,008	100,0%	985
0,1%	And / or traces of As, Ag, Ti, Al, Ni, Pd, Cu				
	TOTAL		0,01		
Bond wire	Au	7440-57-5	0,03	100,0%	3695
0,4%	TOTAL		0,03		
Total weight			8,1		

NEW
(H)G3

MATERIAL CONTENT					
Part	Material	CAS N°	weight mg	% of weight	ppm of total weight
Mold	Fused Silica	60676-86-0	4,8528	79,50%	529546
compound	Epoxy Resin	29690-82-2	0,6104	10,00%	66610
73,57%	Phenolic Resin	9003-35-4	0,6104	10,00%	66610
	Carbon Black	1333-86-4	0,0305	0,50%	3330
	TOTAL		6,7418		
Lead frame	Copper	7440-50-8	0,0021	0,10%	234
23,35%	Silicon	7440-21-3	0,0043	0,20%	467
	Manganese	7439-96-5	0,0086	0,40%	934
	Nickel	7440-02-0	0,8774	41,01%	95744
	Cobalt	7440-48-4	0,0064	0,30%	701
	Iron	7439-89-6	1,2391	57,91%	135210
	Phosphorus	7723-14-0	0,0002	0,01%	23
	Carbon	7440-44-0	0,0002	0,01%	23
	Sulfur	7704-34-9	0,0002	0,01%	23
	Chromium	7440-47-3	0,0011	0,05%	117
	TOTAL		2,1396		
L/F plating	Silver	7440-22-4	0,0004	100,00%	47
0,005%	TOTAL		0,0004		
Terminal finish	Sn	7440-31-5	0,1593	100,00%	17383
1,74%	TOTAL		0,1593		
Silicon	Si	7440-21-3	0,0920	99,57%	10039
chip	SiO2	14808-60-7	0,0004	0,43%	44
1,01%	TOTAL		0,0924		
Chip metal	Au	7440-57-5	0,0080	100,00%	873
0,09%	And / or traces of As, Ag, Ti, Al, Ni, Pd, Cu				
	TOTAL		0,0080		
Bond wire	Copper	7440-50-8	0,0220	98,00%	2402
0,25%	Palladium	7440-05-3	0,0004	1,79%	44
	Gold	7440-57-5	0,0000	0,20%	5
	Others(Au/Cu/Fe/Pd/Mg/Si)	N/A	0,0000	0,01%	0
	TOTAL		0,0225		
Total weight			9,1640		

Material content list (SOD-123)

OLD
(H)E3

MATERIAL CONTENT					
Part	Material	CAS N°	weight mg	% of weight	ppm of total weight
Mold	Silcon Fused	60676-86-0	5,62	73,9%	544926
compound	Cured polymer (epoxy + phenolic resin reacted)		1,83	24,0%	177440
	Antimony Trioxide	1309-64-4	0,08	1,1%	7757
74%	Carbon	7440-44-0	0,08	1,1%	7757
	TOTAL		7,61		
Lead frame	Si	7440-21-3	0,008	0,3%	776
23,2%	Mn	7439-96-5	0,020	0,8%	1939
	Ni	7440-02-0	0,95	39,7%	92114
	Co	7440-48-4	0,01	0,4%	970
	Fe	7439-89-6	1,4	58,5%	135747
	Cr	7440-47-3	0,0025	0,1%	242
	C	7440-44-0	0,0005	0,0%	48
	Cu	7440-50-8	0,003	0,1%	242
	TOTAL		2,394		
L/F plating	Ag	7440-22-4	0,072	100,0%	6981
0,7%	TOTAL		0,07		
Terminal finish	Sn	7440-31-5	0,142	100,0%	13769
	TOTAL		0,14		
Silicon	Si	7440-21-3	0,074	99,6%	7175
chip	SiO2	14808-60-7	0,0003	0,4%	31
0,7%			0,0743		
Chip Metall.	Au	7440-57-5	0,0065	100,0%	630
0,1%	And / or traces of As, Ag, Ti, Al, Ni, Pd, Cu				
	TOTAL		0,01		
Bond wire	Au	7440-57-5	0,015	100,0%	1454
0,1%	TOTAL		0,015		
Total weight			10,3		

NEW
(H)E3

MATERIAL CONTENT					
Part	Material	CAS N°	weight mg	% of weight	ppm of total weight
Mold	Fused Silica	60676-86-0	6,4236	79,50%	603369
compound	Epoxy Resin	29690-82-2	0,8080	10,00%	75895
75,90%	Phenolic Resin	9003-35-4	0,8080	10,00%	75895
	Carbon Black	1333-86-4	0,0404	0,50%	3795
	TOTAL		8,0800		
Lead frame	Copper	7440-50-8	0,0023	0,10%	219
21,88%	Silicon	7440-21-3	0,0047	0,20%	438
	Manganese	7439-96-5	0,0093	0,40%	875
	Nickel	7440-02-0	0,9553	41,01%	89735
	Cobalt	7440-48-4	0,0070	0,30%	657
	Iron	7439-89-6	1,3491	57,91%	126724
	Phosphorus	7723-14-0	0,0002	0,01%	22
	Carbon	7440-44-0	0,0002	0,01%	22
	Sulfur	7704-34-9	0,0002	0,01%	22
	Chromium	7440-47-3	0,0012	0,05%	109
	TOTAL		2,3296		
L/F plating	Silver	7440-22-4	0,0005	100,00%	44
0,004%	TOTAL		0,0005		
Terminal finish	Sn	7440-31-5	0,1463	100,00%	13742
1,37%	TOTAL		0,1463		
Silicon	Si	7440-21-3	0,0740	99,57%	6951
chip	SiO2	14808-60-7	0,0003	0,43%	30
0,70%	TOTAL		0,0743		
Chip Metal	Au	7440-57-5	0,0065	100,00%	611
0,06%	And / or traces of As, Ag, Ti, Al, Ni, Pd, Cu				
	TOTAL		0,0065		
Bond wire	Copper	7440-50-8	0,0088	98,00%	827
0,08%	Palladium	7440-05-3	0,0002	1,79%	15
	Gold	7440-57-5	0,0000	0,20%	2
	Others (Au/Cu/Fe/Pd/Mg/Si)	N/A	0,0000	0,01%	0
	TOTAL		0,0090		
Total weight			10,6462		

Material content list (SOD-123)

OLD
(H)G3

MATERIAL CONTENT					
Part	Material	CAS N°	weight mg	% of weight	ppm of total weight
Mold	Silica, Fused	60676-86-0	5,3	79,6%	566039
compound	Cured polymer (epoxy + phenolic resin reacted)		1,32	19,8%	140976
	Carbon black	1333-86-4	0,04	0,6%	4272
	TOTAL		6,66		
Lead frame	Si	7440-21-3	0,008	0,3%	854
25,6%	Mn	7439-96-5	0,020	0,8%	2136
	Ni	7440-02-0	0,95	39,7%	101460
	Co	7440-48-4	0,01	0,4%	1068
	Fe	7439-89-6	1,4	58,5%	149520
	Cr	7440-47-3	0,0025	0,1%	267
	C	7440-44-0	0,0005	0,0%	53
	Cu	7440-50-8	0,003	0,1%	267
	TOTAL		2,394		
L/F plating	Ag	7440-22-4	0,072	100,0%	7690
0,8%	TOTAL		0,07		
Terminal finish	Sn	7440-31-5	0,142	100,0%	15166
1,5%	TOTAL		0,14		
Silicon	Si	7440-21-3	0,074	99,6%	7903
chip	SiO2	14808-60-7	0,0003	0,4%	34
0,8%			0,0743		
Chip Metal	Au	7440-57-5	0,0065	100,0%	694
	And / or traces of As, Ag, Ti, Al, Ni, Pd, Cu				
0,1%	TOTAL		0,01		
Bond wire	Au	7440-57-5	0,015	100,0%	1602
0,2%	TOTAL		0,015		
Total weight			9,4		

NEW
(H)G3

MATERIAL CONTENT					
Part	Material	CAS N°	weight mg	% of weight	ppm of total weight
Mold	Fused Silica	60676-86-0	6,4236	79,50%	603369
compound	Epoxy Resin	29690-82-2	0,8080	10,00%	75895
75,90%	Phenolic Resin	9003-35-4	0,8080	10,00%	75895
	Carbon Black	1333-86-4	0,0404	0,50%	3795
	TOTAL		8,0800		
Lead frame	Copper	7440-50-8	0,0023	0,10%	219
21,88%	Silicon	7440-21-3	0,0047	0,20%	438
	Manganese	7439-96-5	0,0093	0,40%	875
	Nickel	7440-02-0	0,9553	41,01%	89735
	Cobalt	7440-48-4	0,0070	0,30%	657
	Iron	7439-89-6	1,3491	57,91%	126724
	Phosphorus	7723-14-0	0,0002	0,01%	22
	Carbon	7440-44-0	0,0002	0,01%	22
	Sulfur	7704-34-9	0,0002	0,01%	22
	Chromium	7440-47-3	0,0012	0,05%	109
	TOTAL		2,3296		
L/F plating	Silver	7440-22-4	0,0005	100,00%	44
0,004%	TOTAL		0,0005		
Terminal finish	Sn	7440-31-5	0,1463	100,00%	13742
1,37%	TOTAL		0,1463		
Silicon	Si	7440-21-3	0,0740	99,57%	6951
chip	SiO2	14808-60-7	0,0003	0,43%	30
0,70%	TOTAL		0,0743		
Chip Metal	Au	7440-57-5	0,0065	100,00%	611
0,06%	And / or traces of As, Ag, Ti, Al, Ni, Pd, Cu				
	TOTAL		0,0065		
Bond wire	Copper	7440-50-8	0,0088	98,00%	827
0,08%	Palladium	7440-05-3	0,0002	1,79%	15
	Gold	7440-57-5	0,0000	0,20%	2
	Others (Au/Cu/Fe/Pd/Mg/Si)	N/A	0,0000	0,01%	0
	TOTAL		0,0090		
Total weight			10,6462		

Data Sheet Comparison – Switching (SOD-123)

valid for 1N4148W, 1N4150W, 1N4151W, 1N4448W, BAS16D,
BAV19W/20W/21W, GSD2004W

Data Sheet Comparison – 1N4148W (SOD-123)

Example 1N4148W (OLD)



www.vishay.com

1N4148W

Vishay Semiconductors

Small Signal Fast Switching Diode



FEATURES

- Silicon epitaxial planar diode
- Fast switching diodes
- AEC-Q101 qualified available
- Base P/N-E3 - RoHS-compliant, commercial grade
- Base P/N-HE3 - RoHS-compliant, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

DESIGN SUPPORT TOOLS

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MECHANICAL DATA

Case: SOD-123

Weight: approx. 10.3 mg

Packaging codes / options:

18/10K per 13" reel (8 mm tape), 10K/box

08/3K per 7" reel (8 mm tape), 15K/box

Example 1N4148W (NEW)

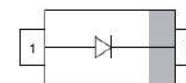


www.vishay.com

1N4148W

Vishay Semiconductors

Small Signal Fast Switching Diode



LINKS TO ADDITIONAL RESOURCES



MECHANICAL DATA

Case: SOD-123

Weight: approx. 10.6 mg

Packaging codes / options:

18/10K per 13" reel (8 mm tape), 10K/box

08/3K per 7" reel (8 mm tape), 15K/box

FEATURES

- Silicon epitaxial planar diode
- Fast switching diodes ($t_r \leq 4\text{ns}$)
- AEC-Q101 qualified available
- Molding compound meets UL 94 V-0 flammability rating
- Moisture sensitivity level (MSL) 1
- Base P/N-E3 - RoHS-compliant, commercial grade
- Base P/N-HE3_A - RoHS-compliant, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

Data Sheet Comparison – 1N4148W (SOD-123)

Example 1N4148W (OLD)																																											
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>REMARKS</th></tr><tr><td rowspan="2">1N4148W</td><td>1N4148W-E3-08 or 1N4148W-E3-18</td><td rowspan="2">A2</td><td rowspan="2">Single</td><td rowspan="2">Tape and reel</td></tr><tr><td>1N4148W-HE3-08 or 1N4148W-HE3-18</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	TYPE MARKING	CIRCUIT CONFIGURATION	REMARKS	1N4148W	1N4148W-E3-08 or 1N4148W-E3-18	A2	Single	Tape and reel	1N4148W-HE3-08 or 1N4148W-HE3-18																							
PARTS TABLE																																											
PART	ORDERING CODE	TYPE MARKING	CIRCUIT CONFIGURATION	REMARKS																																							
1N4148W	1N4148W-E3-08 or 1N4148W-E3-18	A2	Single	Tape and reel																																							
	1N4148W-HE3-08 or 1N4148W-HE3-18																																										
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Example 1N4148W (NEW)																																																					
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Note ⁽¹⁾ Infinite heatsink																																																					

Data Sheet Comparison – 1N4148W (SOD-123)

Example 1N4148W (OLD)

THERMAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air ⁽¹⁾		R_{thJA}	357	K/W
Junction temperature		T_j	150	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-65 to +150	$^{\circ}\text{C}$
Operating temperature range		T_{op}	-55 to +150	$^{\circ}\text{C}$

Note

(1) Valid provided that electrodes are kept at ambient temperature.

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 10\text{ mA}$	V_F			1	V
	$I_F = 100\text{ mA}$	V_F			1.2	V
Leakage current	$V_R = 20\text{ V}$	I_R			25	nA
	$V_R = 75\text{ V}$	I_R			5	μA
	$V_R = 100\text{ V}$	I_R			100	μA
	$V_R = 20\text{ V}, T_J = 150\text{ }^{\circ}\text{C}$	I_R			50	μA
Diode capacitance	$V_F = V_R = 0\text{ V}$	C_D			4	pF
Voltage rise when switching ON	Tested with 50 mA pulses, $t_p = 0.1\text{ }\mu\text{s}$, rise time < 30 ns, $f_p = (5\text{ to }100)\text{ kHz}$	V_{fr}			2.5	V
Reverse recovery time	$I_F = 10\text{ mA}, I_R = 1\text{ mA}, V_R = 6\text{ V},$ $R_L = 100\text{ }\Omega$	t_{rr}			4	ns

Example 1N4148W (NEW)

THERMAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air	According to JEDEC® 51-3 on FR-4 board with recommended soldering footprint	R_{thJA}	440	K/W
Thermal resistance junction to lead	Infinite heat sink	R_{thJL}	330	K/W
Junction temperature		T_j	150	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-65 to +150	$^{\circ}\text{C}$
Operating temperature range		T_{op}	-55 to +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	MAX.	UNIT
Forward voltage	$I_F = 10\text{ mA}$	V_F	1	V
	$I_F = 100\text{ mA}$	V_F	1.2	V
Leakage current	$V_R = 20\text{ V}$	I_R	25	nA
	$V_R = 75\text{ V}$	I_R	1	μA
	$V_R = 100\text{ V}$	I_R	100	μA
	$V_R = 20\text{ V}, T_J = 150\text{ }^{\circ}\text{C}$	I_R	50	μA
Diode capacitance	$V_F = V_R = 0\text{ V}$	C_D	1.5	pF
Voltage rise when switching ON	Tested with 50 mA pulses, $t_p = 0.1\text{ }\mu\text{s}$, rise time < 30 ns, $f_p = (5\text{ to }100)\text{ kHz}$	V_{fr}	2.5	V
Reverse recovery time	$I_F = 10\text{ mA}, I_R = 1\text{ mA}, V_R = 6\text{ V}, R_L = 100\text{ }\Omega$	t_{rr}	4	ns

Data Sheet Comparison – 1N4148W-G (SOD-123)

1N4148W-G (OLD)					1N4148W-G (NEW)																																							
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1N4148W-G	1N4148W-G3-08	No	AH	Single	3 000 (8 mm tape on 7" reel)	15 000																																						
	1N4148W-G3-18	No			10 000 (8 mm tape on 13" reel)	10 000																																						

Data Sheet Comparison – 1N4150W (SOD-123)

1N4150W (OLD)

PARTS TABLE				
PART	ORDERING CODE	TYPE MARKING	CIRCUIT CONFIGURATION	REMARKS
1N4150W	1N4150W-E3-08 or 1N4150W-E3-18	A4	Single	Tape and reel
	1N4150W-HE3-08 or 1N4150W-HE3-18			

1N4150W (NEW)

PARTS TABLE						
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
1N4150W	1N4150W-E3-08	no	AM	Single	3 000 (8 mm tape on 7" reel)	15 000
	1N4150W-HE3_A-08	yes				
	1N4150W-E3-18	no			10 000 (8 mm tape on 13" reel)	10 000
	1N4150W-HE3_A-18	yes				

Data Sheet Comparison – 1N4150W-G (SOD-123)

1N4150W-G (OLD)					1N4150W-G (NEW)																																		
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					PART	ORDERING CODE	TYPE MARKING	CIRCUIT CONFIGURATION	REMARKS																														
					1N4150W-G	1N4150W-G3-18 or 1N4150W-G3-08	AM	Single	Tape and reel																														
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1N4150W-G	1N4150W-G3-08	no	AM	Single	3 000 (8 mm tape on 7" reel)	15 000																																	
	1N4150W-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																	

Data Sheet Comparison – 1N4151W (SOD-123)

1N4151W (OLD)					1N4151W (NEW)																																																			
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1N4151W	1N4151W-E3-08	no	AL	Single	3 000 (8 mm tape on 7" reel)	15 000																																																		
	1N4151W-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																		
	1N4151W-E3-18	no																																																						
	1N4151W-HE3_A-18	yes																																																						

Data Sheet Comparison – 1N4151W-G (SOD-123)

1N4151W-G (OLD)					1N4151W-G (NEW)																																														
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1N4151W-G	1N4151W-G3-08	no	AL	Single	3 000 (8 mm tape on 7" reel)	15 000																																													
	1N4151W-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – 1N4448W (SOD-123)

1N4448W (OLD)

PARTS TABLE				
PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS
1N4448W	1N4448W-E3-08 or 1N4448W-E3-18 1N4448W-HE3-08 or 1N4448W-HE3-18	Single	A3	Tape and reel

1N4448W (NEW)

PARTS TABLE						
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
1N4448W	1N4448W-E3-08	no	AJ	Single	3000 (8 mm tape on 7" reel)	15 000
	1N4448W-HE3_A-08	yes				
	1N4448W-E3-18	no			10 000 (8 mm tape on 13" reel)	10 000
	1N4448W-HE3_A-18	yes				

Data Sheet Comparison – 1N4448W-G (SOD-123)

1N4448W-G (OLD)					1N4448W-G (NEW)																																														
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Data Sheet Comparison – BAS16D (SOD-123)

BAS16D (OLD)					BAS16D (NEW)																																																		
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Data Sheet Comparison – BAS16D-G (SOD-123)

BAS16D-G (OLD)					BAS16D-G (NEW)																																														
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Data Sheet Comparison – BAV19W/20W/21W (SOD-123)

BAV19W/20W/21W (OLD)																																			
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BAV19W/20W/21W (NEW)																																																																																			
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Data Sheet Comparison – BAV19W/20W/21W-G (SOD-123)

BAV19W/20W/21W-G (OLD)						BAV19W/20W/21W-G (NEW)																																																																																									
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Data Sheet Comparison – GSD2004W (SOD-123)

GSD2004W (OLD)					GSD2004W (NEW)																																																		
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Data Sheet Comparison – GSD2004W-G (SOD-123)

GSD2004W-G (OLD)					GSD2004W-G (NEW)																																														
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td>GSD2004W-G</td><td>GSD2004W-G3-08 or GSD2004W-G3-18</td><td>Single</td><td>B7</td><td>Tape and reel</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	GSD2004W-G	GSD2004W-G3-08 or GSD2004W-G3-18	Single	B7	Tape and reel	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="2">GSD2004W-G</td><td>GSD2004W-G3-08</td><td>no</td><td rowspan="2">B7</td><td rowspan="2">Single</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>GSD2004W-G3-18</td><td>no</td><td>10 000 (8 mm tape on 13" reel)</td><td>10 000</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	GSD2004W-G	GSD2004W-G3-08	no	B7	Single	3 000 (8 mm tape on 7" reel)	15 000	GSD2004W-G3-18	no	10 000 (8 mm tape on 13" reel)	10 000
					PARTS TABLE																																														
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																										
GSD2004W-G	GSD2004W-G3-08 or GSD2004W-G3-18	Single	B7	Tape and reel																																															
PARTS TABLE																																																			
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																													
GSD2004W-G	GSD2004W-G3-08	no	B7	Single	3 000 (8 mm tape on 7" reel)	15 000																																													
	GSD2004W-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – Schottky (SOD-123)

valid for BAT42W/43W/46W/54W, SD101AW/BW/CW, SD103AW/BW/CW

Data Sheet Comparison – BAT42W/BAT43W (SOD-123)

Example BAT42W/BAT43W (OLD)	Example BAT42W/BAT43W (NEW)
www.vishay.com BAT42W, BAT43W Vishay Semiconductors Small Signal Schottky Diode DESIGN SUPPORT TOOLS click logo to get started 3D Models Available MECHANICAL DATA Case: SOD-123 Weight: approx. 10.3 mg Packaging codes/options: 18/10K per 13" reel (8 mm tape), 10K/box 08/3K per 7" reel (8 mm tape), 15K/box FEATURES • These diodes feature very low turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges • For general purpose applications • AEC-Q101 qualified available • Base P/N-E3 - RoHS-compliant, commercial grade • Base P/N-HE3 - RoHS-compliant, AEC-Q101 qualified • Material categorization: for definitions of compliance please see www.vishay.com/doc?999912 RoHS COMPLIANT	www.vishay.com BAT42W, BAT43W Vishay Semiconductors Small Signal Schottky Diode LINKS TO ADDITIONAL RESOURCES MECHANICAL DATA Case: SOD-123 Weight: approx. 10.6 mg Packaging codes/options: 18/10K per 13" reel (8 mm tape), 10K/box 08/3K per 7" reel (8 mm tape), 15K/box FEATURES • These diodes feature very low turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges • For general purpose applications • AEC-Q101 qualified available • Molding compound meets UL 94 V-0 flammability rating • Moisture Sensitivity Level (MSL) 1 • Base P/N-E3 - RoHS-compliant, commercial grade • Base P/N-HE3 - RoHS-compliant, AEC-Q101 qualified • Material categorization: for definitions of compliance please see www.vishay.com/doc?999912 RoHS COMPLIANT

Data Sheet Comparison – BAT42W/BAT43W (SOD-123)

Example BAT42W/BAT43W (OLD)					Example BAT42W/BAT43W (NEW)						

Data Sheet Comparison – BAT42W/BAT43W (SOD-123)

Example BAT42W/BAT43W (OLD)				
ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Repetitive peak reverse voltage		V _{RRM}	30	V
Forward continuous current ⁽¹⁾		I _F	200	mA
Repetitive peak forward current ⁽¹⁾	t _p < 1 s, δ < 0.5	I _{FRM}	500	mA
Surge forward current ⁽¹⁾	t _p < 10 ms	I _{FSM}	4	A
Power dissipation ⁽¹⁾	T _{amb} = 65 °C	P _{tot}	200	mW
Note ⁽¹⁾ Valid provided that electrodes are kept at ambient temperature				
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air ⁽¹⁾		R _{thJA}	300	K/W
Junction temperature		T _j	125	°C
Operating temperature range		T _{op}	-55 to +125	°C
Storage temperature range		T _{stg}	-55 to +150	°C
Note ⁽¹⁾ Valid provided that electrodes are kept at ambient temperature				

Example BAT42W/BAT43W (NEW)				
PACKAGE				
PACKAGE NAME	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
SOD-123	10.6 mg	UL 94 V-0	MSL 1 (according J-STD-020)	Peak temperature max. 260 °C
ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Repetitive peak reverse voltage		V _{RRM}	30	V
Forward continuous current ⁽¹⁾		I _F	300	mA
Repetitive peak forward current ⁽¹⁾		I _{FRM}	500	mA
Surge forward current ⁽¹⁾	Duty cycle t _p / T < 0.5	I _{FSM}	4	A
Power dissipation	On FR-4 board with recommended soldering footprint	P _{tot}	230	mW
	Infinite heatsink		350	mW
Note ⁽¹⁾ Infinite heatsink				
THERMAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)				
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air	according to JEDEC® 51-3 on FR-4 board with recommended soldering footprint	R _{thJA}	420	K/W
Thermal resistance junction lead	Infinite heatsink	R _{thJL}	280	K/W
Maximum junction temperature		T _j	125	°C
Storage temperature range		T _{stg}	-65 to +150	°C
Operating temperature range		T _{op}	-55 to +125	°C

Data Sheet Comparison – BAT42W/BAT43W (SOD-123)

Example BAT42W/BAT43W (OLD)

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	$I_R = 100\text{ }\mu\text{A}$ (pulsed)		$V_{(BR)}$	30			V
Leakage current ⁽¹⁾	$V_R = 25\text{ V}$		I_R			0.5	μA
	$V_R = 25\text{ V}, T_J = 100\text{ }^{\circ}\text{C}$		I_R			100	μA
Forward voltage ⁽¹⁾	$I_F = 200\text{ mA}$		V_F			1000	mV
	$I_F = 10\text{ mA}$	BAT42W	V_F			400	mV
	$I_F = 50\text{ mA}$	BAT42W	V_F			650	mV
	$I_F = 2\text{ mA}$	BAT43W	V_F	260		330	mV
	$I_F = 15\text{ mA}$	BAT43W	V_F			450	mV
Diode capacitance	$V_R = 1\text{ V}, f = 1\text{ MHz}$		C_D		7		pF
Reverse recovery time	$I_F = 10\text{ mA}, I_R = 10\text{ mA}, I_R = 1\text{ mA}, R_L = 100\text{ }\Omega$		t_{rr}			5	ns

Note

⁽¹⁾ Pulse test; $t_p \leq 300\text{ }\mu\text{s}$, $t_p/T < 0.02$

Example BAT42W/BAT43W (NEW)

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	$I_R = 100\text{ }\mu\text{A}$ (pulsed)		$V_{(BR)}$	30			V
Leakage current ⁽¹⁾	$V_R = 25\text{ V}$		I_R			0.5	μA
	$V_R = 25\text{ V}, T_J = 100\text{ }^{\circ}\text{C}$		I_R			100	μA
Forward voltage ⁽¹⁾	$I_F = 200\text{ mA}$		V_F			1000	mV
	$I_F = 10\text{ mA}$	BAT42W	V_F			400	mV
	$I_F = 50\text{ mA}$	BAT42W	V_F			650	mV
	$I_F = 2\text{ mA}$	BAT43W	V_F	260		330	mV
	$I_F = 15\text{ mA}$	BAT43W	V_F			450	mV
Diode capacitance	$V_R = 1\text{ V}, f = 1\text{ MHz}$		C_D		7		pF
Reverse recovery time	$I_F = 10\text{ mA}, I_R = 10\text{ mA}, I_R = 1\text{ mA}, R_L = 100\text{ }\Omega$		t_{rr}			5	ns

Note

⁽¹⁾ Pulse test; $t_p \leq 300\text{ }\mu\text{s}$, duty cycle $t_p/T < 0.02$

Data Sheet Comparison – BAT42W-G/BAT43W-G (SOD-123)

BAT42W-G/BAT43W-G (OLD)					BAT42W-G/BAT43W-G (NEW)																																																													
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td>BAT42W-G</td><td>BAT42W-G3-08 or BAT42W-G3-18</td><td>Single</td><td>LC</td><td rowspan="3">Tape and reel</td></tr><tr><td>BAT43W-G</td><td>BAT43W-G3-08 or BAT43W-G3-18</td><td>Single</td><td>LD</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAT42W-G	BAT42W-G3-08 or BAT42W-G3-18	Single	LC	Tape and reel	BAT43W-G	BAT43W-G3-08 or BAT43W-G3-18	Single	LD	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="2">BAT42W-G</td><td>BAT42W-G3-08</td><td>no</td><td rowspan="2">LC</td><td rowspan="2">Single</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAT42W-G3-18</td><td>no</td><td>10 000 (8 mm tape on 13" reel)</td><td>10 000</td></tr><tr><td rowspan="2">BAT43W-G</td><td>BAT43W-G3-08</td><td>no</td><td rowspan="2">LD</td><td rowspan="2">Single</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAT43W-G3-18</td><td>no</td><td>10 000 (8 mm tape on 13" reel)</td><td>10 000</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAT42W-G	BAT42W-G3-08	no	LC	Single	3 000 (8 mm tape on 7" reel)	15 000	BAT42W-G3-18	no	10 000 (8 mm tape on 13" reel)	10 000	BAT43W-G	BAT43W-G3-08	no	LD	Single	3 000 (8 mm tape on 7" reel)	15 000	BAT43W-G3-18	no	10 000 (8 mm tape on 13" reel)	10 000
					PARTS TABLE																																																													
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																																									
					BAT42W-G	BAT42W-G3-08 or BAT42W-G3-18	Single	LC	Tape and reel																																																									
					BAT43W-G	BAT43W-G3-08 or BAT43W-G3-18	Single	LD																																																										
PARTS TABLE																																																																		
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																												
BAT42W-G	BAT42W-G3-08	no	LC	Single	3 000 (8 mm tape on 7" reel)	15 000																																																												
	BAT42W-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																																												
BAT43W-G	BAT43W-G3-08	no	LD	Single	3 000 (8 mm tape on 7" reel)	15 000																																																												
	BAT43W-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																																												

Data Sheet Comparison – BAT46W (SOD-123)

BAT46W (OLD)					BAT46W (NEW)																																							
PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td rowspan="3">BAT46W</td><td>BAT46W-E3-08 or BAT46W-E3-18</td><td rowspan="3">Single</td><td rowspan="3">L6</td><td rowspan="3">Tape and reel</td></tr><tr><td>BAT46W-HE3-08 or BAT46W-HE3-18</td></tr></table>					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAT46W	BAT46W-E3-08 or BAT46W-E3-18	Single	L6	Tape and reel	BAT46W-HE3-08 or BAT46W-HE3-18	PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="4">BAT46W</td><td>BAT46W-E3-08</td><td>no</td><td rowspan="4">LH</td><td rowspan="4">Single</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAT46W-HE3_A-08</td><td>yes</td><td rowspan="3">10 000 (8 mm tape on 13" reel)</td><td rowspan="3">10 000</td></tr><tr><td>BAT46W-E3-18</td><td>no</td></tr><tr><td>BAT46W-HE3_A-18</td><td>yes</td></tr></table>							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAT46W	BAT46W-E3-08	no	LH	Single	3 000 (8 mm tape on 7" reel)	15 000	BAT46W-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAT46W-E3-18	no	BAT46W-HE3_A-18	yes
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																			
					BAT46W	BAT46W-E3-08 or BAT46W-E3-18	Single	L6	Tape and reel																																			
						BAT46W-HE3-08 or BAT46W-HE3-18																																						
						PART				ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																													
BAT46W	BAT46W-E3-08	no	LH	Single	3 000 (8 mm tape on 7" reel)	15 000																																						
	BAT46W-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																						
	BAT46W-E3-18	no																																										
	BAT46W-HE3_A-18	yes																																										

Data Sheet Comparison – BAT46W-G (SOD-123)

BAT46W-G (OLD)

PARTS TABLE

PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS
BAT46W-G	BAT46W-G3-08 or BAT46W-G3-18	Single	LH	Tape and reel

BAT46W-G (NEW)

PARTS TABLE

PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
BAT46W-G	BAT46W-G3-08	no	LH	Single	3 000	15 000
	BAT46W-G3-18	no			10 000	10 000

Data Sheet Comparison – BAT54W (SOD-123)

BAT54W (OLD)					BAT54W (NEW)																																																					
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td rowspan="3">BAT54W</td><td>BAT54W-E3-08 or BAT54W-E3-18</td><td rowspan="3">Single</td><td rowspan="3">L4</td><td rowspan="3">Tape and reel</td></tr><tr><td>BAT54W-HE3-08 or BAT54W-HE3-18</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAT54W	BAT54W-E3-08 or BAT54W-E3-18	Single	L4	Tape and reel	BAT54W-HE3-08 or BAT54W-HE3-18	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="4">BAT54W</td><td>BAT54W-E3-08</td><td>no</td><td rowspan="4">L8</td><td rowspan="4">Single</td><td>3 000</td><td rowspan="2">15 000</td></tr><tr><td>BAT54W-HE3_A-08</td><td>yes</td><td>(8 mm tape on 7" reel)</td></tr><tr><td>BAT54W-E3-18</td><td>no</td><td>10 000</td><td rowspan="2">10 000</td></tr><tr><td>BAT54W-HE3_A-18</td><td>yes</td><td>(8 mm tape on 13" reel)</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAT54W	BAT54W-E3-08	no	L8	Single	3 000	15 000	BAT54W-HE3_A-08	yes	(8 mm tape on 7" reel)	BAT54W-E3-18	no	10 000	10 000	BAT54W-HE3_A-18	yes	(8 mm tape on 13" reel)
					PARTS TABLE																																																					
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																																	
					BAT54W	BAT54W-E3-08 or BAT54W-E3-18	Single	L4	Tape and reel																																																	
						BAT54W-HE3-08 or BAT54W-HE3-18																																																				
PARTS TABLE																																																										
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																				
BAT54W	BAT54W-E3-08	no	L8	Single	3 000	15 000																																																				
	BAT54W-HE3_A-08	yes			(8 mm tape on 7" reel)																																																					
	BAT54W-E3-18	no			10 000	10 000																																																				
	BAT54W-HE3_A-18	yes			(8 mm tape on 13" reel)																																																					

Data Sheet Comparison – BAT54W-G (SOD-123)

BAT54W-G (OLD)					BAT54W-G (NEW)																																														
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td>BAT54W-G</td><td>BAT54W-G3-08 or BAT54W-G3-18</td><td>Single</td><td>L8</td><td>Tape and reel</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAT54W-G	BAT54W-G3-08 or BAT54W-G3-18	Single	L8	Tape and reel	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="2">BAT54W-G</td><td>BAT54W-G3-08</td><td>no</td><td rowspan="2">L8</td><td rowspan="2">Single</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAT54W-G3-18</td><td>no</td><td>10 000 (8 mm tape on 13" reel)</td><td>10 000</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAT54W-G	BAT54W-G3-08	no	L8	Single	3 000 (8 mm tape on 7" reel)	15 000	BAT54W-G3-18	no	10 000 (8 mm tape on 13" reel)	10 000
					PARTS TABLE																																														
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																										
BAT54W-G	BAT54W-G3-08 or BAT54W-G3-18	Single	L8	Tape and reel																																															
PARTS TABLE																																																			
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																													
BAT54W-G	BAT54W-G3-08	no	L8	Single	3 000 (8 mm tape on 7" reel)	15 000																																													
	BAT54W-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – SD101AW/BW/CW (SOD-123)

SD101AW/BW/CW (OLD)					SD101AW/BW/CW (NEW)						

Data Sheet Comparison – SD101AW/BW/CW-G (SOD-123)

SD101AW/BW/CW-G (OLD)					SD101AW/BW/CW-G (NEW)																																																																												
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Data Sheet Comparison – SD103AW/BW/CW (SOD-123)

SD103AW/BW/CW (OLD)					SD103AW/BW/CW (NEW)																																																																	
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SD103BW	SD103BW-E3-08 or SD103BW-E3-18	Single	S7	
	SD103BW-HE3-08 or SD103BW-HE3-18			
SD103CW	SD103CW-E3-08 or SD103CW-E3-18	Single	S8	
	SD103CW-HE3-08 or SD103CW-HE3-18			

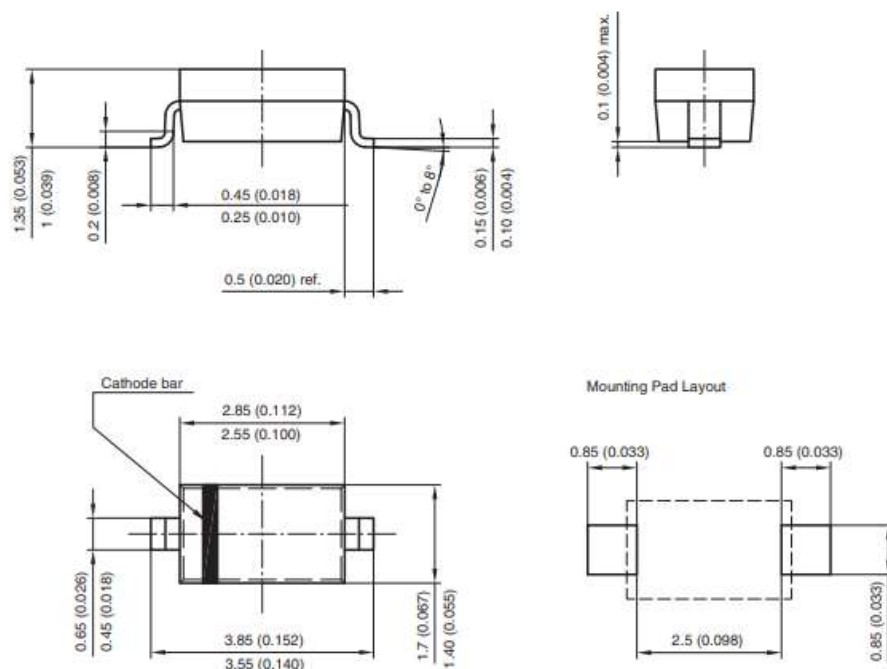
Data Sheet Comparison – SD103AW/BW/CW-G (SOD-123)

SD103AW/BW/CW-G (OLD)					SD103AW/BW/CW-G (NEW)																																																																												
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Data Sheet Comparison – Switching/Schottky (SOD-123)

(OLD)

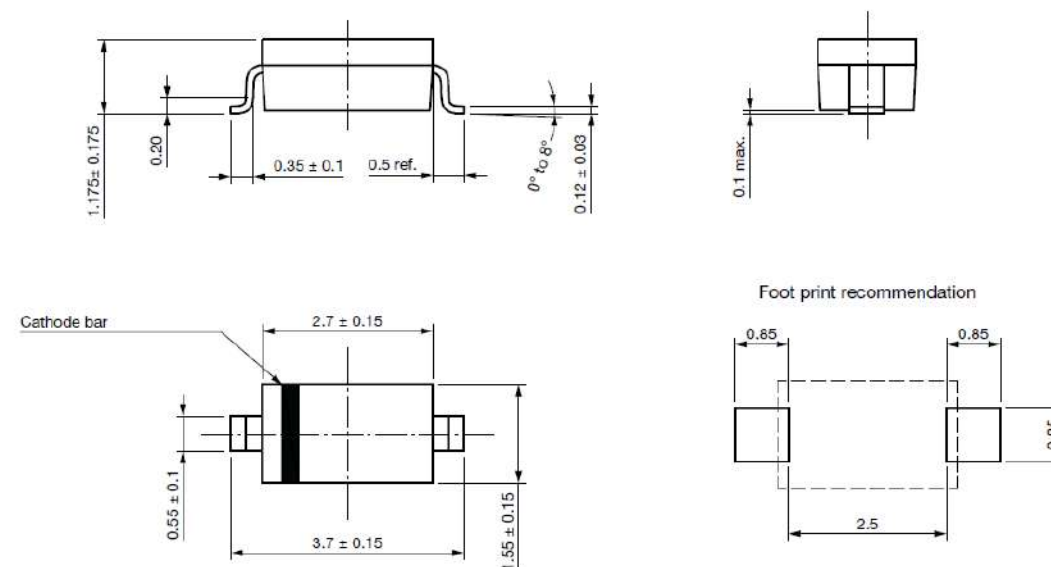
PACKAGE DIMENSIONS in millimeters (inches): **SOD-123**



Rev. 4 - Date: 24. Sep. 2009
Document no.: S8-V-3910.01-001 (4)
17432

(NEW)

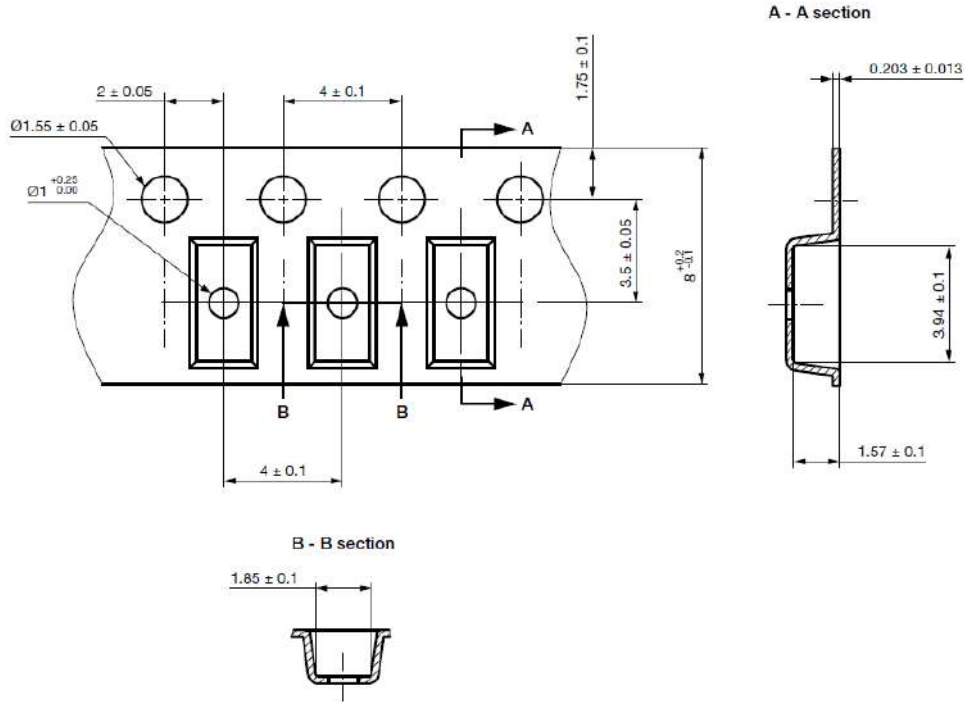
PACKAGE DIMENSIONS in millimeters (inches): **SOD-123**



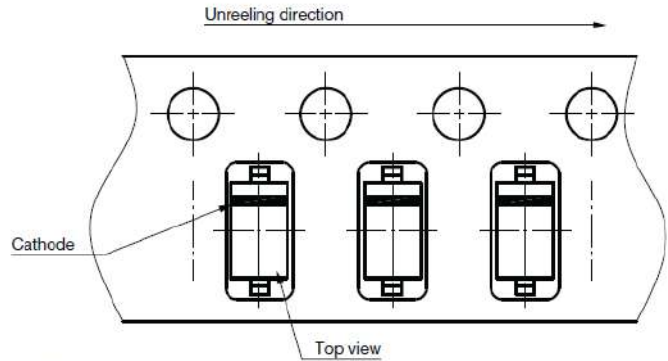
Rev. 01 - Date: 18. Jan. 2022
Document no.: S8-V-3910.01-003 (4)

23223

Data Sheet Comparison – Switching/Schottky (SOD-123)

(OLD)	(NEW)
	CARRIER TAPE SOD-123  The technical drawing illustrates the dimensions for a Carrier Tape SOD-123. The top view shows a carrier tape with four rectangular components. Key dimensions include: a hole diameter of $\varnothing 1.55 \pm 0.05$, a hole position tolerance of $+0.25 / -0.06$, a pitch of 2 ± 0.05, a component width of 4 ± 0.1, a component height of 1.75 ± 0.1, a carrier width of $8^{+0.2}_{-0.1}$, a carrier thickness of 3.5 ± 0.05, and a component spacing of 4 ± 0.1. Section A-A shows a cross-section of the carrier with a thickness of 0.203 ± 0.013, a component height of 3.94 ± 0.1, and a base thickness of 1.57 ± 0.1. Section B-B shows a cross-section of the component with a width of 1.85 ± 0.1. Rev. 02 - Date: 21. Jan. 2014 Document no.: S8-V-3717.10-002 (4) 23224

Data Sheet Comparison – Switching/Schottky (SOD-123)

(OLD)	(NEW)
	ORIENTATION IN CARRIER TAPE SOD-123  Rev. 02 - Date: 07. Nov. 2022 Document no.: S8-V-3717.10-003 (4) 23225

Data Sheet Comparison –Switching (SOT-23)

valid for BAL99, BAS16/19,20,21, BAV23C, BAV70/99, BAW56, GSD2004A/C/S
IMBD4148/4448, MMBD914/6050/7000

Data Sheet Comparison – BAL99 (SOT-23)

Example BAL99 (OLD)

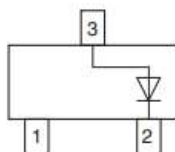


www.vishay.com

BAL99

Vishay Semiconductors

Small Signal Fast Switching Diode



FEATURES

- Fast switching speed
- Surface mount package
- Well suited for automated assembly process
- AEC-Q101 qualified available
- Base P/N-E3 - RoHS-compliant, commercial grade
- Base P/N-HE3 - RoHS-compliant, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

DESIGN SUPPORT TOOLS click logo to get started



MECHANICAL DATA

Case: SOT-23

Weight: approx. 8.8 mg

Packaging codes / options:

18/10K per 13" reel (8 mm tape), 10K/box

08/3K per 7" reel (8 mm tape), 15K/box

Example BAL99 (NEW)

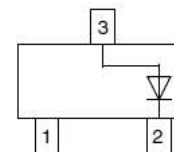


www.vishay.com

BAL99

Vishay Semiconductors

Small Signal Fast Switching Diode



FEATURES

- Fast switching speed
- Surface mount package
- Well suited for automated assembly process
- AEC-Q101 qualified available
- Molding compound meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level (MSL)1
- Base P/N-E3 - RoHS-compliant, commercial grade
- Base P/NHE3_A - RoHS-compliant, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

LINKS TO ADDITIONAL RESOURCES



MECHANICAL DATA

Case: SOT-23

Weight: approx. 9.2 mg

Packaging codes / options:

18/10K per 13" reel (8 mm tape), 10K/box

08/3K per 7" reel (8 mm tape), 15K/box

Data Sheet Comparison – BAL99 (SOT-23)

Example BAL99 (OLD)

PARTS TABLE

PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS
BAL99	BAL99-E3-08 or BAL99-E3-18	Single	JF	Tape and reel
	BAL99-HE3-08 or BAL99-HE3-18			

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Repetitive peak reverse voltage = working peak reverse voltage = DC blocking voltage		$V_{RRM} = V_{RWM} = V_R$	70	V
Peak forward surge current	$t_p = 1\ \mu\text{s}$	I_{FSM}	2	A
	$t_p = 1\ \text{ms}$	I_{FSM}	1	A
	$t_p = 1\ \text{s}$	I_{FSM}	0.5	A
		I_{FAV}	250	mA
Average forward current		I_{FAV}	250	mA
Power dissipation	On fiberglass substrate 30 mm x 10 mm x 1.6 mm	P_{tot}	350	mW

THERMAL CHARACTERISTICS ($T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Junction ambient	On ceramic substrate 8 mm x 10 mm x 0.7 mm	R_{thJA}	357	K/W
Junction and storage temperature range		$T_j = T_{stg}$	-55 to +150	$^{\circ}\text{C}$
Operating temperature range		T_{op}	-55 to +150	$^{\circ}\text{C}$

Example BAL99 (NEW)

PARTS TABLE

PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
BAL99	BAL99-E3-08	no	JG	Single	3 000 (8 mm tape on 7" reel)	15 000
	BAL99HE3_A-08	yes				
	BAL99-E3-18	no			10 000 (8 mm tape on 13" reel)	10 000
	BAL99HE3_A-18	yes				

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Repetitive peak reverse voltage = working peak reverse voltage = DC blocking voltage		$V_{RRM} = V_{RWM} = V_R$	70	V
Peak forward surge current ⁽¹⁾	$t_p = 1\ \mu\text{s}$	I_{FSM}	2	A
	$t_p = 1\ \text{ms}$	I_{FSM}	1	A
	$t_p = 1\ \text{s}$	I_{FSM}	0.5	A
Continuous forward current ⁽¹⁾		I_F	350	mA
Average forward current	Half wave rectification with resistive load and $f \geq 50\ \text{Hz}$	I_{FAV}	250	mA
Power dissipation	On FR-4 board with recommended soldering footprint	P_{tot}	270	mW
	Infinite heatsink		390	mW

Note

⁽¹⁾ Infinite heatsink

THERMAL CHARACTERISTICS ($T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Thermal resistance junction to ambient air	according to JEDEC® 51-3 on FR-4 board with recommended soldering footprint	R_{thJA}	460	K/W
Thermal resistance junction to lead	Infinite heat sink	R_{thJL}	320	K/W
Junction temperature		T_j	150	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-55 to +150	$^{\circ}\text{C}$
Operating temperature range		T_{op}	-55 to +150	$^{\circ}\text{C}$

Data Sheet Comparison – BAL99 (SOT-23)

Example BAL99 (OLD)						

Data Sheet Comparison – BAL99-G (SOT-23)

BAL99-G (OLD)					BAL99-G (NEW)																																														
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BAL99-G	BAL99-G3-08	no	JG	Single	3 000 (8 mm tape on 7" reel)	15 000																																													
	BAL99-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – BAS16 (SOT-23)

BAS16 (OLD)					BAS16 (NEW)																																																					
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	BAS16-E3-18	no			10 000	10 000																																																				
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Data Sheet Comparison – BAS16-G (SOT-23)

BAS16-G (OLD)					BAS16-G (NEW)																																														
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Data Sheet Comparison – BAS19/20/21 (SOT-23)

BAS19/20/21 (OLD)																																			
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BAS20	V _R = 150 V	BAS20-E3-08 or BAS20-E3-18 BAS20-HE3-08 or BAS20-HE3-18	A81	Single	Tape and reel																														
BAS21	V _R = 200 V	BAS21-E3-08 or BAS21-E3-18 BAS21-HE3-08 or BAS21-HE3-18	A82	Single	Tape and reel																														

BAS19/20/21 (NEW)																																																																							
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Data Sheet Comparison – BAS19/20/21-G (SOT-23)

BAS19/20/21-G (OLD)						BAS19/20/21-G (NEW)																																																																																									
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Data Sheet Comparison – BAV23C (SOT-23)

BAV23C (OLD)					BAV23C (NEW)																																																				
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	BAV23C-HE3_A-08	yes																																																							
BAV23C	BAV23C-E3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																																			
	BAV23C-HE3_A-18	yes																																																							

Data Sheet Comparison – BAV23C-G (SOT-23)

BAV23C-G (OLD)					BAV23C-G (NEW)																																		
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BAV23C-G	BAV23C-G3-08	no	KT7	Common cathode	3 000 (8 mm tape on 7" reel)	15 000																																	
	BAV23C-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																	

Data Sheet Comparison – BAV70 (SOT-23)

BAV70 (OLD)					BAV70 (NEW)																																																			
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td rowspan="3">BAV70</td><td>BAV70-E3-08 or BAV70-E3-18</td><td rowspan="3">Common cathode</td><td rowspan="3">JJ</td><td rowspan="3">Tape and reel</td></tr><tr><td>BAV70-HE3-08 or BAV70-HE3-18</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAV70	BAV70-E3-08 or BAV70-E3-18	Common cathode	JJ	Tape and reel	BAV70-HE3-08 or BAV70-HE3-18	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="4">BAV70</td><td>BAV70-E3-08</td><td>no</td><td rowspan="4">JJG</td><td rowspan="4">Common cathode</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAV70-HE3_A-08</td><td>yes</td><td rowspan="3">10 000 (8 mm tape on 13" reel)</td><td rowspan="3">10 000</td></tr><tr><td>BAV70-E3-18</td><td>no</td></tr><tr><td>BAV70-HE3_A-18</td><td>yes</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAV70	BAV70-E3-08	no	JJG	Common cathode	3 000 (8 mm tape on 7" reel)	15 000	BAV70-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAV70-E3-18	no	BAV70-HE3_A-18	yes
					PARTS TABLE																																																			
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																		
BAV70	BAV70-E3-08	no	JJG	Common cathode	3 000 (8 mm tape on 7" reel)	15 000																																																		
	BAV70-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																		
	BAV70-E3-18	no																																																						
	BAV70-HE3_A-18	yes																																																						

Data Sheet Comparison – BAV70-G (SOT-23)

BAV70-G (OLD)					BAV70-G (NEW)																																														
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BAV70-G	BAV70-G3-08 or BAV70-G3-18	Common cathode	JJG	Tape and reel																																															
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																													
BAV70-G	BAV70-G3-08	no	JJG	Common cathode	3 000 (8 mm tape on 7" reel)	15 000																																													
	BAV70-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – BAV99 (SOT-23)

BAV99 (OLD)					BAV99 (NEW)																																																			
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td rowspan="3">BAV99</td><td>BAV99-E3-08 or BAV99-E3-18</td><td rowspan="3">Dual serial</td><td rowspan="3">JE</td><td rowspan="3">Tape and reel</td></tr><tr><td>BAV99-HE3-08 or BAV99-HE3-18</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAV99	BAV99-E3-08 or BAV99-E3-18	Dual serial	JE	Tape and reel	BAV99-HE3-08 or BAV99-HE3-18	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="4">BAV99</td><td>BAV99-E3-08</td><td>no</td><td rowspan="4">JEG</td><td rowspan="4">Dual serial</td><td rowspan="2">3 000 (8 mm tape on 7" reel)</td><td rowspan="2">15 000</td></tr><tr><td>BAV99-HE3_A-08</td><td>yes</td></tr><tr><td>BAV99-E3-18</td><td>no</td><td rowspan="2">10 000 (8 mm tape on 13" reel)</td><td rowspan="2">10 000</td></tr><tr><td>BAV99-HE3_A-18</td><td>yes</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAV99	BAV99-E3-08	no	JEG	Dual serial	3 000 (8 mm tape on 7" reel)	15 000	BAV99-HE3_A-08	yes	BAV99-E3-18	no	10 000 (8 mm tape on 13" reel)	10 000	BAV99-HE3_A-18	yes
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					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																															
					BAV99	BAV99-E3-08 or BAV99-E3-18	Dual serial	JE	Tape and reel																																															
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																		
BAV99	BAV99-E3-08	no	JEG	Dual serial	3 000 (8 mm tape on 7" reel)	15 000																																																		
	BAV99-HE3_A-08	yes																																																						
	BAV99-E3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																																		
	BAV99-HE3_A-18	yes																																																						

Data Sheet Comparison – BAV99-G (SOT-23)

BAV99-G (OLD)					BAV99-G (NEW)																																		
PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td>BAV99-G</td><td>BAV99-G3-08 or BAV99-G3-18</td><td>Dual serial</td><td>JEG</td><td>Tape and reel</td></tr></table>					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAV99-G	BAV99-G3-08 or BAV99-G3-18	Dual serial	JEG	Tape and reel	PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="2">BAV99-G</td><td>BAV99-G3-08</td><td>no</td><td rowspan="2">JEG</td><td rowspan="2">Dual serial</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAV99-G3-18</td><td>no</td><td>10 000 (8 mm tape on 13" reel)</td><td>10 000</td></tr></table>							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAV99-G	BAV99-G3-08	no	JEG	Dual serial	3 000 (8 mm tape on 7" reel)	15 000	BAV99-G3-18	no	10 000 (8 mm tape on 13" reel)	10 000
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																														
					BAV99-G	BAV99-G3-08 or BAV99-G3-18	Dual serial	JEG	Tape and reel																														
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BAV99-G	BAV99-G3-08	no	JEG	Dual serial	3 000 (8 mm tape on 7" reel)	15 000																																	
	BAV99-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																	

Data Sheet Comparison – BAW56 (SOT-23)

BAW56 (OLD)					BAW56 (NEW)																																																			
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																		
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	BAW56-HE3_A-08	yes																																																						
	BAW56-E3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																																		
	BAW56-HE3_A-18	yes																																																						

Data Sheet Comparison – BAW56-G (SOT-23)

BAW56-G (OLD)					BAW56-G (NEW)																																		
PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td>BAW56-G</td><td>BAW56-G3-08 or BAW56-G3-18</td><td>Common anode</td><td>JDG</td><td>Tape and reel</td></tr></table>					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAW56-G	BAW56-G3-08 or BAW56-G3-18	Common anode	JDG	Tape and reel	PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="2">BAW56-G</td><td>BAW56-G3-08</td><td>no</td><td rowspan="2">JDG</td><td rowspan="2">Common anode</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAW56-G3-18</td><td>no</td><td>10 000 (8 mm tape on 13" reel)</td><td>10 000</td></tr></table>							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAW56-G	BAW56-G3-08	no	JDG	Common anode	3 000 (8 mm tape on 7" reel)	15 000	BAW56-G3-18	no	10 000 (8 mm tape on 13" reel)	10 000
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																	
BAW56-G	BAW56-G3-08	no	JDG	Common anode	3 000 (8 mm tape on 7" reel)	15 000																																	
	BAW56-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																	

Data Sheet Comparison – GSD2004A (SOT-23)

GSD2004A (OLD)					GSD2004A (NEW)																																																				
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					PARTS TABLE																																																				
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																																
					GSD2004A	GSD2004A-E3-08 or GSD2004A-E3-18	Common anode	DBA	Tape and reel																																																
						GSD2004A-HE3-08 or GSD2004A-HE3-18																																																			
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																			
GSD2004A	GSD2004A-E3-08	no	DBH	Common anode	3 000 (8 mm tape on 7" reel)	15 000																																																			
	GSD2004A-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																			
	GSD2004A-E3-18	no																																																							
	GSD2004A-HE3_A-18	yes																																																							

Data Sheet Comparison – GSD2004A-G (SOT-23)

GSD2004A-G (OLD)					GSD2004A-G (NEW)																																														
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					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																										
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																													
GSD2004A-G	GSD2004A-G3-08	no	DBH	Common anode	3 000 (8 mm tape on 7" reel)	15 000																																													
	GSD2004A-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – GSD2004C (SOT-23)

GSD2004C (OLD)					GSD2004C (NEW)																																																							
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					PARTS TABLE																																																							
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																																			
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																						
GSD2004C	GSD2004C-E3-08	no	DBK	Common anode	3 000 (8 mm tape on 7" reel)	15 000																																																						
	GSD2004C-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																						
	GSD2004C-E3-18	no																																																										
	GSD2004C-HE3_A-18	yes																																																										

Data Sheet Comparison – GSD2004C-G (SOT-23)

GSD2004C-G (OLD)					GSD2004C-G (NEW)																																		
PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td>GSD2004C-G</td><td>GSD2004C-G3-08 or GSD2004C-G3-18</td><td>Common cathode</td><td>DBK</td><td>Tape and reel</td></tr></table>					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	GSD2004C-G	GSD2004C-G3-08 or GSD2004C-G3-18	Common cathode	DBK	Tape and reel	PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="2">GSD2004C-G</td><td>GSD2004C-G3-08</td><td>no</td><td rowspan="2">DBK</td><td rowspan="2">Common anode</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>GSD2004C-G3-18</td><td>no</td><td>10 000 (8 mm tape on 13" reel)</td><td>10 000</td></tr></table>							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	GSD2004C-G	GSD2004C-G3-08	no	DBK	Common anode	3 000 (8 mm tape on 7" reel)	15 000	GSD2004C-G3-18	no	10 000 (8 mm tape on 13" reel)	10 000
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																														
					GSD2004C-G	GSD2004C-G3-08 or GSD2004C-G3-18	Common cathode	DBK	Tape and reel																														
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																	
GSD2004C-G	GSD2004C-G3-08	no	DBK	Common anode	3 000 (8 mm tape on 7" reel)	15 000																																	
	GSD2004C-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																	

Data Sheet Comparison – GSD2004S (SOT-23)

GSD2004S (OLD)					GSD2004S (NEW)																																																			
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					PARTS TABLE																																																			
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																															
					GSD2004S	GSD2004S-E3-08 or GSD2004S-E3-18	Dual serial	DB6	Tape and reel																																															
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																		
GSD2004S	GSD2004S-E3-08	no	DB7	Dual serial	3 000 (8 mm tape on 7" reel)	15 000																																																		
	GSD2004S-HE3_A-08	yes																																																						
	GSD2004S-E3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																																		
	GSD2004S-HE3_A-18	yes																																																						

Data Sheet Comparison – GSD2004S-G (SOT-23)

GSD2004S-G (OLD)					GSD2004S-G (NEW)																																		
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GSD2004S-G	GSD2004S-G3-08	no	DB7	Dual serial	3 000 (8 mm tape on 7" reel)	15 000																																	
	GSD2004S-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																	

Data Sheet Comparison – IMBD4148 (SOT-23)

IMBD4148 (OLD)					IMBD4148 (NEW)																																																					
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td rowspan="3">IMBD4148</td><td>IMBD4148-E3-08 or IMBD4148-E3-18</td><td rowspan="3">Single</td><td rowspan="3">A2</td><td rowspan="3">Tape and reel</td></tr><tr><td>IMBD4148-HE3-08 or IMBD4148-HE3-18</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	IMBD4148	IMBD4148-E3-08 or IMBD4148-E3-18	Single	A2	Tape and reel	IMBD4148-HE3-08 or IMBD4148-HE3-18	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="4">IMBD4148</td><td>IMBD4148-E3-08</td><td>no</td><td rowspan="4">AH</td><td rowspan="4">Single</td><td>3 000</td><td>15 000</td></tr><tr><td>IMBD4148-HE3_A-08</td><td>yes</td><td>(8 mm tape on 7" reel)</td></tr><tr><td>IMBD4148-E3-18</td><td>no</td><td>10 000</td><td>10 000</td></tr><tr><td>IMBD4148-HE3_A-18</td><td>yes</td><td>(8 mm tape on 13" reel)</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	IMBD4148	IMBD4148-E3-08	no	AH	Single	3 000	15 000	IMBD4148-HE3_A-08	yes	(8 mm tape on 7" reel)	IMBD4148-E3-18	no	10 000	10 000	IMBD4148-HE3_A-18	yes	(8 mm tape on 13" reel)
					PARTS TABLE																																																					
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																																	
					IMBD4148	IMBD4148-E3-08 or IMBD4148-E3-18	Single	A2	Tape and reel																																																	
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																				
IMBD4148	IMBD4148-E3-08	no	AH	Single	3 000	15 000																																																				
	IMBD4148-HE3_A-08	yes			(8 mm tape on 7" reel)																																																					
	IMBD4148-E3-18	no			10 000	10 000																																																				
	IMBD4148-HE3_A-18	yes			(8 mm tape on 13" reel)																																																					

Data Sheet Comparison – IMBD4148-G (SOT-23)

IMBD4148-G (OLD)					IMBD4148-G (NEW)																																														
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					PARTS TABLE																																														
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																										
IMBD4148-G	IMBD4148-G3-08 or IMBD4148-G3-18	Single	AH	Tape and reel																																															
PARTS TABLE																																																			
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																													
IMBD4148-G	IMBD4148-G3-08	no	AH	Single	3 000 (8 mm tape on 7" reel)	15 000																																													
	IMBD4148-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – IMBD4448 (SOT-23)

IMBD4448 (OLD)					IMBD4448 (NEW)																																																				
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td rowspan="3">IMBD4448</td><td>IMBD4448-E3-08 or IMBD4448-E3-18</td><td rowspan="3">Single</td><td rowspan="3">A3</td><td rowspan="3">Tape and reel</td></tr><tr><td>IMBD4448-HE3-08 or IMBD4448-HE3-18</td></tr><tr><td></td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	IMBD4448	IMBD4448-E3-08 or IMBD4448-E3-18	Single	A3	Tape and reel	IMBD4448-HE3-08 or IMBD4448-HE3-18		<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="4">IMBD4448</td><td>IMBD4448-E3-08</td><td>no</td><td rowspan="4">AJ</td><td rowspan="4">Common anode</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>IMBD4448-HE3_A-08</td><td>yes</td><td rowspan="3">10 000 (8 mm tape on 13" reel)</td><td rowspan="3">10 000</td></tr><tr><td>IMBD4448-E3-18</td><td>no</td></tr><tr><td>IMBD4448-HE3_A-18</td><td>yes</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	IMBD4448	IMBD4448-E3-08	no	AJ	Common anode	3 000 (8 mm tape on 7" reel)	15 000	IMBD4448-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	IMBD4448-E3-18	no	IMBD4448-HE3_A-18	yes
					PARTS TABLE																																																				
					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																																
					IMBD4448	IMBD4448-E3-08 or IMBD4448-E3-18	Single	A3	Tape and reel																																																
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PARTS TABLE																																																									
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																			
IMBD4448	IMBD4448-E3-08	no	AJ	Common anode	3 000 (8 mm tape on 7" reel)	15 000																																																			
	IMBD4448-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																			
	IMBD4448-E3-18	no																																																							
	IMBD4448-HE3_A-18	yes																																																							

Data Sheet Comparison – IMBD4448-G (SOT-23)

IMBD4448-G (OLD)					IMBD4448-G (NEW)																																														
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IMBD4448-G	IMBD4448-G3-08 or IMBD4448-G3-18	Single	AJ	Tape and reel																																															
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																													
IMBD4448-G	IMBD4448-G3-08	no	AJ	Common anode	3 000 (8 mm tape on 7" reel)	15 000																																													
	IMBD4448-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – MMBD914 (SOT-23)

MMBD914 (OLD)					MMBD914 (NEW)																																																			
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					PARTS TABLE																																																			
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																																		
MMBD914	MMBD914-E3-08	no	5DG	Single	3 000 (8 mm tape on 7" reel)	15 000																																																		
	MMBD914-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																		
	MMBD914-E3-18	no																																																						
	MMBD914-HE3_A-18	yes																																																						

Data Sheet Comparison – MMBD914-G (SOT-23)

MMBD914-G (OLD)					MMBD914-G (NEW)																																														
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MMBD914-G	MMBD914-G3-08	no	5DG	Single	3 000 (8 mm tape on 7" reel)	15 000																																													
	MMBD914-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – MMBD6050 (SOT-23)

MMBD6050 (OLD)					MMBD6050 (NEW)																																																			
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td rowspan="3">MMBD6050</td><td>MMBD6050-E3-08 or MMBD6050-E3-18</td><td rowspan="3">Single</td><td rowspan="3">5AM</td><td rowspan="3">Tape and reel</td></tr><tr><td>MMBD6050-HE3-08 or MMBD6050-HE3-18</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	MMBD6050	MMBD6050-E3-08 or MMBD6050-E3-18	Single	5AM	Tape and reel	MMBD6050-HE3-08 or MMBD6050-HE3-18	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="4">MMBD6050</td><td>MMBD6050-E3-08</td><td>no</td><td rowspan="4">5AG</td><td rowspan="4">Single</td><td rowspan="2">3 000 (8 mm tape on 7" reel)</td><td rowspan="2">15 000</td></tr><tr><td>MMBD6050-HE3_A-08</td><td>yes</td></tr><tr><td>MMBD6050-18</td><td>no</td><td rowspan="2">10 000 (8 mm tape on 13" reel)</td><td rowspan="2">10 000</td></tr><tr><td>MMBD6050_A-18</td><td>yes</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	MMBD6050	MMBD6050-E3-08	no	5AG	Single	3 000 (8 mm tape on 7" reel)	15 000	MMBD6050-HE3_A-08	yes	MMBD6050-18	no	10 000 (8 mm tape on 13" reel)	10 000	MMBD6050_A-18	yes
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MMBD6050	MMBD6050-E3-08	no	5AG	Single	3 000 (8 mm tape on 7" reel)	15 000																																																		
	MMBD6050-HE3_A-08	yes																																																						
	MMBD6050-18	no			10 000 (8 mm tape on 13" reel)	10 000																																																		
	MMBD6050_A-18	yes																																																						

Data Sheet Comparison – MMBD6050-G (SOT-23)

MMBD6050-G (OLD)					MMBD6050-G (NEW)																																		
PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td>MMBD6050-G</td><td>MMBD6050-G3-08 or MMBD6050-G3-18</td><td>Single</td><td>5AG</td><td>Tape and reel</td></tr></table>					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	MMBD6050-G	MMBD6050-G3-08 or MMBD6050-G3-18	Single	5AG	Tape and reel	PARTS TABLE <table><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="2">MMBD6050-G</td><td>MMBD6050-G3-08</td><td>no</td><td rowspan="2">5AG</td><td rowspan="2">Single</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>MMBD6050-G3-18</td><td>no</td><td>10 000 (8 mm tape on 13" reel)</td><td>10 000</td></tr></table>							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	MMBD6050-G	MMBD6050-G3-08	no	5AG	Single	3 000 (8 mm tape on 7" reel)	15 000	MMBD6050-G3-18	no	10 000 (8 mm tape on 13" reel)	10 000
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PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY																																	
MMBD6050-G	MMBD6050-G3-08	no	5AG	Single	3 000 (8 mm tape on 7" reel)	15 000																																	
	MMBD6050-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																	

Data Sheet Comparison – MMBD7000 (SOT-23)

MMBD7000 (OLD)					MMBD7000 (NEW)																																																				
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MMBD7000	MMBD7000-E3-08	no	M5G	Dual serial	3 000 (8 mm tape on 7" reel)	15 000																																																			
	MMBD7000-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																			
	MMBD7000-E3-18	no																																																							
	MMBD7000-HE3_A-18	yes																																																							

Data Sheet Comparison –MMBD7000-G (SOT-23)

MMBD7000-G (OLD)					MMBD7000-G (NEW)																																														
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	MMBD7000-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000																																													

Data Sheet Comparison – Schottky (SOT-23)

valid for BAS40-00 to -06, BAS70-00 to -06, BAT54/A/S/C

Data Sheet Comparison – BAT54-Series (SOT-23)

Example BAT54-Series (OLD)

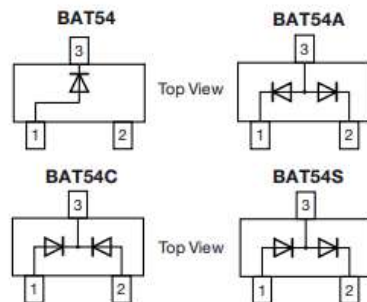


www.vishay.com

BAT54, BAT54A, BAT54C, BAT54S

Vishay Semiconductors

Small Signal Schottky Diodes, Single and Dual



FEATURES

- These diodes feature very low turn-on voltage and fast switching
- These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- AEC-Q101 qualified available
- Base P/N-E3 - RoHS-compliant, commercial grade
- Base P/N-HE3 - RoHS-compliant, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

MECHANICAL DATA

Case: SOT-23

Weight: approx. 8.8 mg

Packaging codes/options:

18/10K per 13" reel (8 mm tape), 10K/box

08/3K per 7" reel (8 mm tape), 15K/box

DESIGN SUPPORT TOOLS click logo to get started



Example BAT54-Series (NEW)

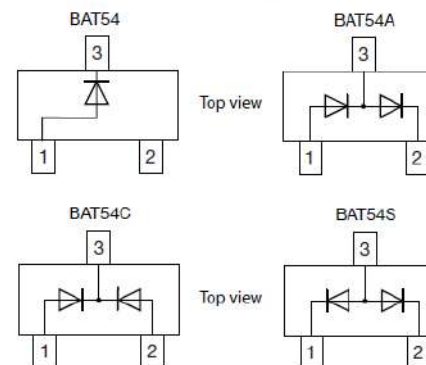


www.vishay.com

BAT54, BAT54A, BAT54C, BAT54S

Vishay Semiconductors

Small Signal Schottky Diodes, Single and Dual



FEATURES

- These diodes feature very low turn-on voltage and fast switching
- These devices are protected by a PN junction guarding against excessive voltage, such as electrostatic discharges
- AEC-Q101 qualified available
- Molding compound meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level (MSL) 1
- Base P/N-E3 - RoHS-compliant, commercial grade
- Base P/N-HE3 - RoHS-compliant, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

MECHANICAL DATA

Case: SOT-23

Weight: approx. 9.2 mg

Packaging codes / options:

18/10K per 13" reel (8 mm tape), 10K/box

08/3K per 7" reel (8 mm tape), 15K/box

LINKS TO ADDITIONAL RESOURCES



Data Sheet Comparison – BAT54-Series (SOT-23)

Example BAT54-Series (OLD)

PARTS TABLE				
PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS
BAT54	BAT54-E3-08 or BAT54-E3-18	Single	L4	Tape and reel
	BAT54-HE3-08 or BAT54-HE3-18			
BAT54A	BAT54A-E3-08 or BAT54A-E3-18	Common anode	L42	
	BAT54A-HE3-08 or BAT54A-HE3-18			
BAT54C	BAT54C-E3-08 or BAT54C-E3-18	Common cathode	L43	
	BAT54C-HE3-08 or BAT54C-HE3-18			
BAT54S	BAT54S-E3-08 or BAT54S-E3-18	Dual serial	L44	
	BAT54S-HE3-08 or BAT54S-HE3-18			

Example BAT54-Series (NEW)

PARTS TABLE						
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
BAT54	BAT54-E3-08	no	L8	Single	3 000 (8 mm tape on 7" reel)	15 000
	BAT54-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000
	BAT54-E3-18	no				
	BAT54-HE3_A-18	yes				
BAT54A	BAT54A-E3-08	no	L46	Dual serial	3 000 (8 mm tape on 7" reel)	15 000
	BAT54A-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000
	BAT54A-E3-18	no				
	BAT54A-HE3_A-18	yes				
BAT54C	BAT54C-E3-08	no	L47	Common cathode	3 000 (8 mm tape on 7" reel)	15 000
	BAT54C-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000
	BAT54C-E3-18	no				
	BAT54C-HE3_A-18	yes				
BAT54S	BAT54S-E3-08	no	L48	Common anode	3 000 (8 mm tape on 7" reel)	15 000
	BAT54S-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000
	BAT54S-E3-18	no				
	BAT54S-HE3_A-18	yes				

Data Sheet Comparison – BAT54-Series (SOT-23)

Example BAT54-Series (OLD)

<

Data Sheet Comparison – BAT54-Series (SOT-23)

Example BAT54-Series (OLD)

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	I _R = 100 μA (pulsed)	V _{BR}	30			V
Leakage current	Pulsed test t _p < 300 μs, δ < 2 % at V _R = 25 V	I _R			2	μA
Forward voltage	I _F = 0.1 mA, t _p < 300 μs, δ < 2 %	V _F			240	mV
	I _F = 1 mA, t _p < 300 μs, δ < 2 %	V _F			320	mV
	I _F = 10 mA, t _p < 300 μs, δ < 2 %	V _F			400	mV
	I _F = 30 mA, t _p < 300 μs, δ < 2 %	V _F			500	mV
	I _F = 100 mA, t _p < 300 μs, δ < 2 %	V _F			800	mV
Diode capacitance	V _R = 1 V, f = 1 MHz	C _D			10	pF
Reverse recovery time	I _F = 10 mA to I _R = 10 mA, i _R = 1 mA, R _L = 100 Ω	t _{rr}			5	ns

Example BAT54-Series (NEW)

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse breakdown voltage	I _R = 100 μA (pulsed)	V _{BR}	30			V
Leakage current ⁽¹⁾	at V _R = 25 V	I _R			2	nA
Forward voltage ⁽¹⁾	I _F = 0.1 mA	V _F			240	mV
	I _F = 1 mA	V _F			320	mV
	I _F = 10 mA	V _F			400	mV
	I _F = 30 mA	V _F			500	mV
	I _F = 100 mA	V _F			800	mV
Diode capacitance	V _R = 1 V; f = 1 MHz	C _D			10	pF
Reverse recovery time	I _F = I _R = 10 mA, i _R = 1 mA, R _L = 100 Ω	t _{rr}			5	ns

Note

⁽¹⁾ Pulse test; t_p ≤ 300 μs, duty cycle t_p/T < 0.02

Data Sheet Comparison – BAT54-G (SOT-23)

BAT54-G (OLD)					BAT54-G (NEW)																																																																																											
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PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS																																																																																												
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BAT54A-G	BAT54A-G3-08 or BAT54A-G3-18	Common anode	L46																																																																																													
BAT54C-G	BAT54C-G3-08 or BAT54C-G3-18	Common cathode	L47																																																																																													
BAT54S-G	BAT54S-G3-08 or BAT54S-G3-18	Dual serial	L48																																																																																													
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BAT54-G	BAT54-G3-08	no	L8	Single	3 000	15 000																																																																																										
	BAT54-G3-18	no			10 000	10 000																																																																																										
BAT54A-G	BAT54A-G3-08	no	L46	Dual serial	3 000	15 000																																																																																										
	BAT54A-G3-18	no			10 000	10 000																																																																																										
BAT54C-G	BAT54C-G3-08	no	L47	Common cathode	3 000	15 000																																																																																										
	BAT54C-G3-18	no			10 000	10 000																																																																																										
BAT54S-G	BAT54S-G3-08	no	L48	Common anode	3 000	15 000																																																																																										
	BAT54S-G3-18	no			10 000	10 000																																																																																										

Data Sheet Comparison – BAS40-00 to -06 (SOT-23)

BAS40-00 to -06 (OLD)					BAS40-00 to -06 (NEW)																																																																																																															
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td rowspan="2">BAS40-00</td><td>BAS40-00-E3-08 or BAS40-00-E3-18</td><td rowspan="2">Single</td><td rowspan="2">43</td><td rowspan="9">Tape and reel</td></tr><tr><td>BAS40-00-HE3-08 or BAS40-00-HE3-18</td></tr><tr><td rowspan="2">BAS40-04</td><td>BAS40-04-E3-08 or BAS40-04-E3-18</td><td rowspan="2">Dual serial</td><td rowspan="2">44</td></tr><tr><td>BAS40-04-HE3-08 or BAS40-04-HE3-18</td></tr><tr><td rowspan="2">BAS40-05</td><td>BAS40-05-E3-08 or BAS40-05-E3-18</td><td rowspan="2">Common cathode</td><td rowspan="2">45</td></tr><tr><td>BAS40-05-HE3-08 or BAS40-05-HE3-18</td></tr><tr><td rowspan="2">BAS40-06</td><td>BAS40-06-E3-08 or BAS40-06-E3-18</td><td rowspan="2">Common anode</td><td rowspan="2">46</td></tr><tr><td>BAS40-06-HE3-08 or BAS40-06-HE3-18</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAS40-00	BAS40-00-E3-08 or BAS40-00-E3-18	Single	43	Tape and reel	BAS40-00-HE3-08 or BAS40-00-HE3-18	BAS40-04	BAS40-04-E3-08 or BAS40-04-E3-18	Dual serial	44	BAS40-04-HE3-08 or BAS40-04-HE3-18	BAS40-05	BAS40-05-E3-08 or BAS40-05-E3-18	Common cathode	45	BAS40-05-HE3-08 or BAS40-05-HE3-18	BAS40-06	BAS40-06-E3-08 or BAS40-06-E3-18	Common anode	46	BAS40-06-HE3-08 or BAS40-06-HE3-18	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="4">BAS40-00</td><td>BAS40-00-E3-08</td><td>no</td><td rowspan="4">43G</td><td rowspan="4">Single</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAS40-00-HE3_A-08</td><td>yes</td><td rowspan="3">10 000 (8 mm tape on 13" reel)</td><td rowspan="3">10 000</td></tr><tr><td>BAS40-00-E3-18</td><td>no</td></tr><tr><td>BAS40-00-HE3_A-18</td><td>yes</td></tr><tr><td rowspan="4">BAS40-04</td><td>BAS40-04-E3-08</td><td>no</td><td rowspan="4">44G</td><td rowspan="4">Dual serial</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAS40-04-HE3_A-08</td><td>yes</td><td rowspan="3">10 000 (8 mm tape on 13" reel)</td><td rowspan="3">10 000</td></tr><tr><td>BAS40-04-E3-18</td><td>no</td></tr><tr><td>BAS40-04-HE3_A-18</td><td>yes</td></tr><tr><td rowspan="4">BAS40-05</td><td>BAS40-05-E3-08</td><td>no</td><td rowspan="4">45G</td><td rowspan="4">Common cathode</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAS40-05-HE3_A-08</td><td>yes</td><td rowspan="3">10 000 (8 mm tape on 13" reel)</td><td rowspan="3">10 000</td></tr><tr><td>BAS40-05-E3-18</td><td>no</td></tr><tr><td>BAS40-05-HE3_A-18</td><td>yes</td></tr><tr><td rowspan="4">BAS40-06</td><td>BAS40-06-E3-08</td><td>no</td><td rowspan="4">46G</td><td rowspan="4">Common anode</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAS40-06-HE3_A-08</td><td>yes</td><td rowspan="3">10 000 (8 mm tape on 13" reel)</td><td rowspan="3">10 000</td></tr><tr><td>BAS40-06-E3-18</td><td>no</td></tr><tr><td>BAS40-06-HE3_A-18</td><td>yes</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAS40-00	BAS40-00-E3-08	no	43G	Single	3 000 (8 mm tape on 7" reel)	15 000	BAS40-00-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAS40-00-E3-18	no	BAS40-00-HE3_A-18	yes	BAS40-04	BAS40-04-E3-08	no	44G	Dual serial	3 000 (8 mm tape on 7" reel)	15 000	BAS40-04-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAS40-04-E3-18	no	BAS40-04-HE3_A-18	yes	BAS40-05	BAS40-05-E3-08	no	45G	Common cathode	3 000 (8 mm tape on 7" reel)	15 000	BAS40-05-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAS40-05-E3-18	no	BAS40-05-HE3_A-18	yes	BAS40-06	BAS40-06-E3-08	no	46G	Common anode	3 000 (8 mm tape on 7" reel)	15 000	BAS40-06-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAS40-06-E3-18	no	BAS40-06-HE3_A-18	yes
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	BAS40-04-HE3_A-18	yes																																																																																																																		
BAS40-05	BAS40-05-E3-08	no	45G	Common cathode	3 000 (8 mm tape on 7" reel)	15 000																																																																																																														
	BAS40-05-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																																																																														
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Data Sheet Comparison – BAS40-00-G to -06-G (SOT-23)

BAS40-00-G to -06-G (OLD)

PARTS TABLE				
PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS
BAS40-00-G	BAS40-00-G3-08 or BAS40-00-G3-18	Single	43G	Tape and reel
BAS40-04-G	BAS40-04-G3-08 or BAS40-04-G3-18	Dual serial	44G	
BAS40-05-G	BAS40-05-G3-08 or BAS40-05-G3-18	Common cathode	45G	
BAS40-06-G	BAS40-06-G3-08 or BAS40-06-G3-18	Common anode	46G	

BAS40-00-G to -06-G (NEW)

PARTS TABLE						
PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
BAS40-00-G	BAS40-00-G3-08	no	43G	Single	3 000 (8 mm tape on 7" reel)	15 000
	BAS40-00-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000
BAS40-04-G	BAS40-04-G3-08	no	44G	Dual serial	3 000 (8 mm tape on 7" reel)	15 000
	BAS40-04-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000
BAS40-05-G	BAS40-05-G3-08	no	45G	Common cathode	3 000 (8 mm tape on 7" reel)	15 000
	BAS40-05-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000
BAS40-06-G	BAS40-06-G3-08	no	46G	Common anode	3 000 (8 mm tape on 7" reel)	15 000
	BAS40-06-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000

Data Sheet Comparison – BAS70-00 to -06 (SOT-23)

BAS70-00 to -06 (OLD)					BAS70-00 to -06 (NEW)																																																																																																															
<table><tr><th colspan="5">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>CIRCUIT CONFIGURATION</th><th>TYPE MARKING</th><th>REMARKS</th></tr><tr><td rowspan="2">BAS70-00</td><td>BAS70-00-E3-08 or BAS70-00-E3-18</td><td rowspan="2">Single</td><td rowspan="2">73</td><td rowspan="8">Tape and reel</td></tr><tr><td>BAS70-00-HE3-08 or BAS70-00-HE3-18</td></tr><tr><td rowspan="2">BAS70-04</td><td>BAS70-04-E3-08 or BAS70-04-E3-18</td><td rowspan="2">Dual serial</td><td rowspan="2">74</td></tr><tr><td>BAS70-04-HE3-08 or BAS70-04-HE3-18</td></tr><tr><td rowspan="2">BAS70-05</td><td>BAS70-05-E3-08 or BAS70-05-E3-18</td><td rowspan="2">Common cathode</td><td rowspan="2">75</td></tr><tr><td>BAS70-05-HE3-08 or BAS70-05-HE3-18</td></tr><tr><td rowspan="2">BAS70-06</td><td>BAS70-06-E3-08 or BAS70-06-E3-18</td><td rowspan="2">Common anode</td><td rowspan="2">76</td></tr><tr><td>BAS70-06-HE3-08 or BAS70-06-HE3-18</td></tr></table>					PARTS TABLE					PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS	BAS70-00	BAS70-00-E3-08 or BAS70-00-E3-18	Single	73	Tape and reel	BAS70-00-HE3-08 or BAS70-00-HE3-18	BAS70-04	BAS70-04-E3-08 or BAS70-04-E3-18	Dual serial	74	BAS70-04-HE3-08 or BAS70-04-HE3-18	BAS70-05	BAS70-05-E3-08 or BAS70-05-E3-18	Common cathode	75	BAS70-05-HE3-08 or BAS70-05-HE3-18	BAS70-06	BAS70-06-E3-08 or BAS70-06-E3-18	Common anode	76	BAS70-06-HE3-08 or BAS70-06-HE3-18	<table><tr><th colspan="7">PARTS TABLE</th></tr><tr><th>PART</th><th>ORDERING CODE</th><th>AEC-Q101 QUALIFIED</th><th>TYPE MARKING</th><th>CIRCUIT CONFIGURATION</th><th>TAPED UNITS PER REEL</th><th>MINIMUM ORDER QUANTITY</th></tr><tr><td rowspan="4">BAS70-00</td><td>BAS70-00-E3-08</td><td>no</td><td rowspan="4">73G</td><td rowspan="4">Single</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAS70-00-HE3_A-08</td><td>yes</td><td rowspan="2">10 000 (8 mm tape on 13" reel)</td><td rowspan="2">10 000</td></tr><tr><td>BAS70-00-E3-18</td><td>no</td></tr><tr><td>BAS70-00-HE3_A-18</td><td>yes</td></tr><tr><td rowspan="4">BAS70-04</td><td>BAS70-04-E3-08</td><td>no</td><td rowspan="4">74G</td><td rowspan="4">Dual serial</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAS70-04-HE3_A-08</td><td>yes</td><td rowspan="2">10 000 (8 mm tape on 13" reel)</td><td rowspan="2">10 000</td></tr><tr><td>BAS70-04-E3-18</td><td>no</td></tr><tr><td>BAS70-04-HE3_A-18</td><td>yes</td></tr><tr><td rowspan="4">BAS70-05</td><td>BAS70-05-E3-08</td><td>no</td><td rowspan="4">75G</td><td rowspan="4">Common cathode</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAS70-05-HE3_A-08</td><td>yes</td><td rowspan="2">10 000 (8 mm tape on 13" reel)</td><td rowspan="2">10 000</td></tr><tr><td>BAS70-05-E3-18</td><td>no</td></tr><tr><td>BAS70-05-HE3_A-18</td><td>yes</td></tr><tr><td rowspan="4">BAS70-06</td><td>BAS70-06-E3-08</td><td>no</td><td rowspan="4">76G</td><td rowspan="4">Common anode</td><td>3 000 (8 mm tape on 7" reel)</td><td>15 000</td></tr><tr><td>BAS70-06-HE3_A-08</td><td>yes</td><td rowspan="2">10 000 (8 mm tape on 13" reel)</td><td rowspan="2">10 000</td></tr><tr><td>BAS70-06-E3-18</td><td>no</td></tr><tr><td>BAS70-06-HE3_A-18</td><td>yes</td></tr></table>							PARTS TABLE							PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY	BAS70-00	BAS70-00-E3-08	no	73G	Single	3 000 (8 mm tape on 7" reel)	15 000	BAS70-00-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAS70-00-E3-18	no	BAS70-00-HE3_A-18	yes	BAS70-04	BAS70-04-E3-08	no	74G	Dual serial	3 000 (8 mm tape on 7" reel)	15 000	BAS70-04-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAS70-04-E3-18	no	BAS70-04-HE3_A-18	yes	BAS70-05	BAS70-05-E3-08	no	75G	Common cathode	3 000 (8 mm tape on 7" reel)	15 000	BAS70-05-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAS70-05-E3-18	no	BAS70-05-HE3_A-18	yes	BAS70-06	BAS70-06-E3-08	no	76G	Common anode	3 000 (8 mm tape on 7" reel)	15 000	BAS70-06-HE3_A-08	yes	10 000 (8 mm tape on 13" reel)	10 000	BAS70-06-E3-18	no	BAS70-06-HE3_A-18	yes
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					BAS70-04	BAS70-04-E3-08 or BAS70-04-E3-18	Dual serial	74																																																																																																												
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					BAS70-05	BAS70-05-E3-08 or BAS70-05-E3-18	Common cathode	75																																																																																																												
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BAS70-04	BAS70-04-E3-08	no	74G	Dual serial	3 000 (8 mm tape on 7" reel)	15 000																																																																																																														
	BAS70-04-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																																																																														
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	BAS70-04-HE3_A-18	yes																																																																																																																		
BAS70-05	BAS70-05-E3-08	no	75G	Common cathode	3 000 (8 mm tape on 7" reel)	15 000																																																																																																														
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BAS70-06	BAS70-06-E3-08	no	76G	Common anode	3 000 (8 mm tape on 7" reel)	15 000																																																																																																														
	BAS70-06-HE3_A-08	yes			10 000 (8 mm tape on 13" reel)	10 000																																																																																																														
	BAS70-06-E3-18	no																																																																																																																		
	BAS70-06-HE3_A-18	yes																																																																																																																		

Data Sheet Comparison – BAS70-00-G to -06-G (SOT-23)

BAS70-00-G to -06-G (OLD)

PARTS TABLE

PART	ORDERING CODE	CIRCUIT CONFIGURATION	TYPE MARKING	REMARKS
BAS70-00-G	BAS70-00-G3-08 or BAS70-00-G3-18	Single	73G	Tape and reel
BAS70-04-G	BAS70-04-G3-08 or BAS70-04-G3-18	Dual serial	74G	Tape and reel
BAS70-05-G	BAS70-05-G3-08 or BAS70-05-G3-18	Common cathode	75G	Tape and reel
BAS70-06-G	BAS70-06-G3-08 or BAS70-06-G3-18	Common anode	76G	Tape and reel

BAS70-00-G to -06-G (NEW)

PARTS TABLE

PART	ORDERING CODE	AEC-Q101 QUALIFIED	TYPE MARKING	CIRCUIT CONFIGURATION	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
BAS70-00-G	BAS70-00-G3-08	no	73G	Single	3 000 (8 mm tape on 7" reel)	15 000
	BAS70-00-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000
BAS70-04-G	BAS70-04-G3-08	no	74G	Dual serial	3 000 (8 mm tape on 7" reel)	15 000
	BAS70-04-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000
BAS70-05-G	BAS70-05-G3-08	no	75G	Common cathode	3 000 (8 mm tape on 7" reel)	15 000
	BAS70-05-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000
BAS70-06-G	BAS70-06-G3-08	no	76G	Common anode	3 000 (8 mm tape on 7" reel)	15 000
	BAS70-06-G3-18	no			10 000 (8 mm tape on 13" reel)	10 000

Data Sheet Comparison – ESD (SOT-23)

valid for VCAN16/26/33/36

Data Sheet Comparison – VCAN16A2-03S (SOT-23)

Example VCAN16A2-03S (OLD)



www.vishay.com

VCAN16A2-03S

Vishay Semiconductors

Bidirectional Symmetrical (BiSy) Low Capacitance, Dual-Line ESD Protection Diode in SOT-23



MARKING (example only)



YYY = type code (see table below)
XX = date code

DESIGN SUPPORT TOOLS AVAILABLE



FEATURES

- For CAN applications
- Small SOT-23 package
- 2-line ESD protection
- Working range ± 16 V
- Low leakage current $I_R < 0.05 \mu A$
- Low load capacitance $C_D < 18.5$ pF
- ESD immunity acc. IEC 61000-4-2 ± 30 kV contact discharge ± 30 kV air discharge
- ESD capability according to AEC-Q101: human body model: class H3B: > 8 kV
- e3 - pins plated with tin (Sn)
- AEC-Q101 qualified available
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

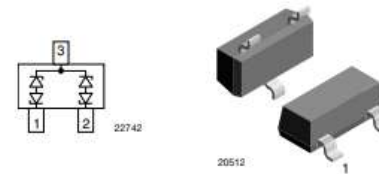


www.vishay.com

VCAN16A2-03S

Vishay Semiconductors

Bidirectional Symmetrical (BiSy) Low Capacitance, Dual-Line ESD Protection Diode in SOT-23



MARKING (example only)



YYY = type code (see table below)
XX = date code

LINKS TO ADDITIONAL RESOURCES



FEATURES

- For CAN applications
- Small SOT-23 package
- 2-line ESD protection
- Working range ± 16 V
- Low leakage current $I_R < 0.05 \mu A$
- Low load capacitance $C_D < 18.5$ pF
- ESD immunity acc. IEC 61000-4-2 ± 30 kV contact discharge ± 30 kV air discharge
- ESD capability according to AEC-Q101: human body model: class H3B: > 8 kV
- e3 - pins plated with tin (Sn)
- AEC-Q101 qualified available
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

Data Sheet Comparison – VCAN16A2-03S (SOT-23)

Example VCAN16A2-03S (OLD)

ORDERING INFORMATION

PART NUMBER (EXAMPLE)	ENVIRONMENTAL AND QUALITY CODE				PACKAGING CODE		ORDERING CODE (EXAMPLE)
	AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS		TIN PLATED	3K PER 7" REEL (8 mm TAPE) 15K/BOX = MOQ	10K PER 13" REEL (8 mm TAPE) 10K/BOX = MOQ	
		STANDARD	GREEN				
VCAN16A2-03S	-	E	-	3	-08	-	VCAN16A2-03S-E3-08
VCAN16A2-03S	H	E	-	3	-08	-	VCAN16A2-03SHE3-08
VCAN16A2-03S	-	E	-	3	-	-18	VCAN16A2-03S-E3-18
VCAN16A2-03S	H	E	-	3	-	-18	VCAN16A2-03SHE3-18

PACKAGE DATA

DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
VCAN16A2-03S	SOT-23	16A	8.8 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

ABSOLUTE MAXIMUM RATINGS

PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT
Peak pulse current	T _A = 25 °C, acc. IEC 61000-4-5; t _p = 8/20 μs; single shot	I _{PPM}	5	A
Peak pulse power	T _A = 25 °C; pin 1 or 2 to pin 3; acc. IEC 61000-4-5; t _p = 8/20 μs; single shot	P _{PP}	145	W
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses, T _A = 25 °C	V _{ESD}	± 30	kV
	Air discharge acc. IEC 61000-4-2; 10 pulses, T _A = 25 °C		± 30	kV
Operating temperature	Junction temperature	T _J	-55 to +150	°C
Storage temperature		T _{STG}	-55 to +150	°C

Example VCAN16A2-03S (NEW)

ORDERING INFORMATION

PART NUMBER (EXAMPLE)	ENVIRONMENTAL AND QUALITY CODE			REVISION	PACKAGING CODE		ORDERING CODE (EXAMPLE)
	AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS	TIN PLATED		3K PER 7" REEL (8 mm TAPE) 15K/BOX = MOQ	10K PER 13" REEL (8 mm TAPE) 10K/BOX = MOQ	
VCAN16A2-03S	-	E	3	-	08		VCAN16A2-03S-E3-08
VCAN16A2-03S	H	E	3	A	08		VCAN16A2-03SHE3A08
VCAN16A2-03S	-	E	3	-		18	VCAN16A2-03S-E3-18
VCAN16A2-03S	H	E	3	A		18	VCAN16A2-03SHE3A18

PACKAGE DATA

DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
VCAN16A2-03S	SOT-23	16A	9.2 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

ABSOLUTE MAXIMUM RATINGS

PARAMETER	TEST CONDITIONS	SYMBOL	VALUE	UNIT
Peak pulse current	T _A = 25 °C, acc. IEC 61000-4-5; t _p = 8/20 μs; single shot	I _{PPM}	5	A
Peak pulse power	T _A = 25 °C; pin 1 or 2 to pin 3; acc. IEC 61000-4-5; t _p = 8/20 μs; single shot	P _{PP}	145	W
ESD immunity	Contact discharge acc. IEC 61000-4-2; 10 pulses, T _A = 25 °C	V _{ESD}	± 30	kV
	Air discharge acc. IEC 61000-4-2; 10 pulses, T _A = 25 °C		± 30	kV
Operating temperature	Junction temperature	T _J	-55 to +150	°C
Storage temperature		T _{STG}	-55 to +150	°C

Data Sheet Comparison – VCAN16A2-03S (SOT-23)

Example VCAN16A2-03S (OLD)

ELECTRICAL CHARACTERISTICS (pin 1 to 3, 3 to 1, 2 to 3, or 3 to 2) (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines
Reverse stand-off voltage	Max. reverse working voltage	V _{RWM}	-	-	16	V
Reverse voltage	At I _R = 0.05 µA	V _R	16	-	-	V
Reverse current	At V _{RWM} = 16 V	I _R	-	-	0.05	µA
Reverse breakdown voltage	At I _R = 1 mA	V _{BR}	17.1	18.6	20	V
Reverse clamping voltage	At I _{PP} 1 A; t _p = 8/20 µs	V _C	-	20	23	V
	At I _{PP} = I _{PPM} = 5.2 A; t _p = 8/20 µs	V _C	-	25	28	V
Capacitance	At V _R = 0 V, f = 1 MHz	C _D	15	16.7	18.5	pF
	Diode capacitance matching at V _R = 0 V, T _J = -40 °C to 125 °C / C _{D13} vs. C _{D23}	C _D	-	-	1	pF

Example VCAN16A2-03S (NEW)

ELECTRICAL CHARACTERISTICS (pin 1 to 3, 3 to 1, 2 to 3, or 3 to 2) (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITIONS/REMARKS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Protection paths	Number of lines which can be protected	N _{channel}	-	-	2	lines
Reverse stand-off voltage	Max. reverse working voltage	V _{RWM}	-	-	16	V
Reverse voltage	At I _R = 0.05 µA	V _R	16	-	-	V
Reverse current	At V _{RWM} = 16 V	I _R	-	-	0.05	µA
Reverse breakdown voltage	At I _R = 1 mA	V _{BR}	17.1	18.6	20	V
Reverse clamping voltage	At I _{PP} 1 A; t _p = 8/20 µs	V _C	-	20	23	V
	At I _{PP} = I _{PPM} = 5.2 A; t _p = 8/20 µs	V _C	-	25	28	V
Capacitance	At V _R = 0 V, f = 1 MHz	C _D	15	16.7	18.5	pF
	Diode capacitance matching at V _R = 0 V, C _{D13} vs. C _{D23}	C _D	-	-	1	pF

Data Sheet Comparison – VCAN26A2-03S (SOT-23)

VCAN26A2-03S (OLD)

ORDERING INFORMATION							
PART NUMBER (EXAMPLE)	ENVIRONMENTAL AND QUALITY CODE			PACKAGING CODE			ORDERING CODE (EXAMPLE)
	AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS		TIN PLATED	3K PER 7" REEL (8 mm TAPE) 15K/BOX = MOQ	10K PER 13" REEL (8 mm TAPE) 10K/BOX = MOQ	
		STANDARD	GREEN				
VCAN26A2-03S	-	E		3	-08		VCAN26A2-03S-E3-08
VCAN26A2-03S	H	E		3	-08		VCAN26A2-03SHE3-08
VCAN26A2-03S	-	E		3		-18	VCAN26A2-03S-E3-18
VCAN26A2-03S	H	E		3		-18	VCAN26A2-03SHE3-18

PACKAGE DATA						
DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
VCAN26A2-03S	SOT-23	6A2	8.8 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

VCAN26A2-03S (NEW)

ORDERING INFORMATION							
PART NUMBER (EXAMPLE)	ENVIRONMENTAL AND QUALITY CODE			REVISION	PACKAGING CODE		ORDERING CODE (EXAMPLE)
	AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS	TIN PLATED		3K PER 7" REEL (8 mm TAPE) 15K/BOX = MOQ	10K PER 13" REEL (8 mm TAPE) 10K/BOX = MOQ	
VCAN26A2-03S	-	E	3	-	08		VCAN26A2-03S-E3-08
VCAN26A2-03S	H	E	3	A	08		VCAN26A2-03SHE3A08
VCAN26A2-03S	-	E	3	-		18	VCAN26A2-03S-E3-18
VCAN26A2-03S	H	E	3	A		18	VCAN26A2-03SHE3A18

PACKAGE DATA						
DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
VCAN26A2-03S	SOT-23	6A2	9.2 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

Data Sheet Comparison – VCAN33A2-03S (SOT-23)

VCAN33A2-03S (OLD)							VCAN33A2-03S (NEW)						
ORDERING INFORMATION													
PART NUMBER (EXAMPLE)	ENVIRONMENTAL AND QUALITY CODE			PACKAGING CODE			ORDERING CODE (EXAMPLE)						
	AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS		TIN PLATED	3K PER 7" REEL (8 mm TAPE)	10K PER 13" REEL (8 mm TAPE)							
		STANDARD	GREEN		15K/BOX = MOQ	10K/BOX = MOQ							
VCAN33A2-03S	-	E		3	-08		VCAN33A2-03S-E3-08						
VCAN33A2-03S	H	E		3	-08		VCAN33A2-03SHE3-08						
VCAN33A2-03S	-	E		3		-18	VCAN33A2-03S-E3-18						
VCAN33A2-03S	H	E		3		-18	VCAN33A2-03SHE3-18						
PACKAGE DATA													
DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS							
VCAN33A2-03S	SOT-23	3A2	8.8 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C							

ORDERING INFORMATION													
PART NUMBER (EXAMPLE)	ENVIRONMENTAL AND QUALITY CODE			REVISION	PACKAGING CODE		ORDERING CODE (EXAMPLE)						
	AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS			TIN PLATED	3K PER 7" REEL (8 mm TAPE)		10K PER 13" REEL (8 mm TAPE)					
						15K/BOX = MOQ		10K/BOX = MOQ					
VCAN33A2-03S	-	E		3	-	08	VCAN33A2-03S-E3-08						
VCAN33A2-03S	H	E		3	A	08	VCAN33A2-03SHE3A08						
VCAN33A2-03S	-	E		3	-	18	VCAN33A2-03S-E3-18						
VCAN33A2-03S	H	E		3	A	18	VCAN33A2-03SHE3A18						
PACKAGE DATA													
DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS							
VCAN33A2-03S	SOT-23	3A2	9.2 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C							

Data Sheet Comparison – VCAN36A2-03S (SOT-23)

VCAN36A2-03S (OLD)

ORDERING INFORMATION

PART NUMBER (EXAMPLE)	ENVIRONMENTAL AND QUALITY CODE				PACKAGING CODE		ORDERING CODE (EXAMPLE)
	AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS		TIN PLATED	3K PER 7" REEL (8 mm TAPE) 15K/BOX = MOQ	10K PER 13" REEL (8 mm TAPE) 10K/BOX = MOQ	
		STANDARD	GREEN				
VCAN36A2-03S	-	E		3	-08		VCAN36A2-03S-E3-08
VCAN36A2-03S	H	E		3	-08		VCAN36A2-03SHE3-08
VCAN36A2-03S	-	E		3		-18	VCAN36A2-03S-E3-18
VCAN36A2-03S	H	E		3		-18	VCAN36A2-03SHE3-18

PACKAGE DATA

DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
VCAN36A2-03S	SOT-23	36A	8.8 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

VCAN36A2-03S (NEW)

ORDERING INFORMATION

PART NUMBER (EXAMPLE)	ENVIRONMENTAL AND QUALITY CODE			REVISION	PACKAGING CODE		ORDERING CODE (EXAMPLE)
	AEC-Q101 QUALIFIED	RoHS-COMPLIANT + LEAD (Pb)-FREE TERMINATIONS	TIN PLATED		3K PER 7" REEL (8 mm TAPE) 15K/BOX = MOQ	10K PER 13" REEL (8 mm TAPE) 10K/BOX = MOQ	
VCAN36A2-03S	-	E	3	-	08		VCAN36A2-03S-E3-08
VCAN36A2-03S	H	E	3	A	08		VCAN36A2-03SHE3A08
VCAN36A2-03S	-	E	3	-		18	VCAN36A2-03S-E3-18
VCAN36A2-03S	H	E	3	A		18	VCAN36A2-03SHE3A18

PACKAGE DATA

DEVICE NAME	PACKAGE NAME	TYPE CODE	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
VCAN36A2-03S	SOT-23	36A	9.2 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

Data Sheet Comparison – Zener (SOT-23)

valid for MMBZ27VDA

Data Sheet Comparison – MMBZ27VDA (SOT-23)

Example MMBZ27VDA (OLD)

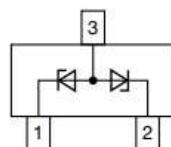


www.vishay.com

MMBZ27VDA

Vishay Semiconductors

Small Signal Zener Diodes, Dual



LINKS TO ADDITIONAL RESOURCES



PRIMARY CHARACTERISTICS		
PARAMETER	VALUE	UNIT
V _Z range nom.	27	V
Test current I _{ZT}	1	mA
V _{BR}	27	V
V _{WM}	22	V
P _{PPM}	40	W
T _J max.	150	°C
V _Z specification	Pulse current	
Circuit configuration	Common anode	
Polarity	Uni-directional, bi-directional	

FEATURES

- Dual silicon planar Zener diodes with common anode configurations
- Dual package provides for bidirectional or separate unidirectional configurations
- The dual configurations protect two separate lines with only one device
- Peak power: 40 W at 1 ms (bidirectional)
- For bidirectional operation, circuit connected to pins 1 and 2. For unidirectional operation, circuit connected to pins 1 and 3 or pins 2 and 3
- AEC-Q101 qualified available
- ESD capability according to AEC-Q101: human body model > 8 kV machine model > 800 V
- Base P/N-E3 - RoHS-compliant, commercial grade
- Base P/N-HE3 - RoHS-compliant, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

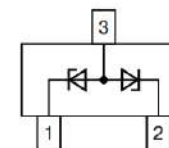


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MMBZ27VDA

Vishay Semiconductors

Small Signal Zener Diodes, Dual



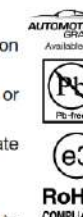
LINKS TO ADDITIONAL RESOURCES



PRIMARY CHARACTERISTICS		
PARAMETER	VALUE	UNIT
V _Z range nom.	27	V
Test current I _{ZT}	1	mA
V _{BR}	27	V
V _{WM}	22	V
P _{PPM}	40	W
T _J max.	150	°C
V _Z specification	Pulse current	
Circuit configuration	Common anode	
Polarity	Unidirectional, bidirectional	

FEATURES

- Dual silicon planar Zener diodes with common anode configurations
- Dual package provides for bidirectional or separate unidirectional configurations
- The dual configurations protect two separate lines with only one device
- Peak power: 40 W at 1 ms (bidirectional)
- For bidirectional operation, circuit connected to pins 1 and 2. For unidirectional operation, circuit connected to pins 1 and 3 or pins 2 and 3
- AEC-Q101 qualified available
- ESD capability according to AEC-Q101: human body model > 8 kV machine model > 800 V
- Base P/N-E3 - RoHS-compliant, commercial grade
- Base P/N-HE3_A - RoHS-compliant, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



Data Sheet Comparison – MMBZ27VDA (SOT-23)

Example MMBZ27VDA (OLD)

ORDERING INFORMATION

DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
MMBZ27VDA	MMBZ27VDA-E3-08	3000 (8 mm tape on 7" reel)	15 000
	MMBZ27VDA-HE3-08		
	MMBZ27VDA-E3-18	10 000 (8 mm tape on 13" reel)	10 000
	MMBZ27VDA-HE3-18		

PACKAGE

PACKAGE NAME	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
SOT-23	8.8 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	260 °C/10 s at terminals

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25\text{ °C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Peak power dissipation ⁽¹⁾		P_{PK}	40	W
Power dissipation on FR-5 board ⁽²⁾	$T_{amb} = 25\text{ °C}$, derate above 25 °C	P_{tot}	225	mW
			1.8	mW/K
Power dissipation on alumina substrate ⁽³⁾	$T_{amb} = 25\text{ °C}$, derate above 25 °C	P_{tot}	300	mW
			2.4	mW/K
Thermal resistance junction to ambient air		R_{thJA}	556	K/W
Operating temperature range		T_{op}	-55 to +150	°C
Storage temperature range		T_j, T_{stg}	-55 to +150	°C

Notes

⁽¹⁾ Non repetitive current pulse per figure 2 and derate above $T_{amb} = 25\text{ °C}$ per figure 3

⁽²⁾ FR-5 = 1" x 0.75" x 0.62"

⁽³⁾ Alumina = 0.4" x 0.3" x 0.024", 99.5 % alumina

Example MMBZ27VDA (NEW)

ORDERING INFORMATION

DEVICE NAME	ORDERING CODE	AEC-Q101 QUALIFIED	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY
MMBZ27VDA	MMBZ27VDA-E3-08	no	3000 (8 mm tape on 7" reel)	15 000
	MMBZ27VDA-HE3_A-08	yes		
	MMBZ27VDA-E3-18	no	10 000 (8 mm tape on 13" reel)	10 000
	MMBZ27VDA-HE3_A-18	yes		

PACKAGE

PACKAGE NAME	WEIGHT	MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS
SOT-23	9.2 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	Peak temperature max. 260 °C

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25\text{ °C}$, unless otherwise specified)

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Peak power dissipation ⁽¹⁾	$t_p = 10/1000\text{ }\mu\text{s}$	P_{PK}	40	W
Power dissipation on FR-4 board ⁽²⁾	$T_{amb} = 25\text{ °C}$, derate above 25 °C	P_{tot}	300	mW
			2.4	mW/K
Power dissipation on infinite heatsink	$T_{amb} = 25\text{ °C}$, derate above 25 °C	P_{tot}	500	mW
			4	mW/K
Thermal resistance junction to ambient air	According to JEDEC® 51-3 on FR-4 board with recommended soldering footprint	R_{thJA}	420	K/W
Thermal resistance junction to lead		R_{thJL}	250	K/W
Operating temperature range		T_{op}	-55 to +150	°C
Storage temperature range		T_j, T_{stg}	-55 to +150	°C

Notes

⁽¹⁾ Non repetitive current pulse per figure 2 and derate above $T_{amb} = 25\text{ °C}$ per figure 3

⁽²⁾ With recommended soldering footprint

Data Sheet Comparison – MMBZ27VDA (SOT-23)

Example MMBZ27VDA (OLD)

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)											
PART NUMBER	MARKING CODE	ZENER VOLTAGE RANGE ⁽¹⁾			TEST CURRENT	WORKING PEAK REVERSE VOLTAGE	MAX. REVERSE LEAKAGE CURRENT	MAX. REVERSE SURGE CURRENT	MAX. REVERSE VOLTAGE (CLAMPING VOLTAGE) ⁽²⁾	MAX. TEMPERATURE COEFFICIENT	MAX. FORWARD VOLTAGE
		V _Z at I _{ZT1}			I _{ZT1}	V _{RWM}	I _R at V _{RWM}	I _{PP}	V _C at I _{RSM}	V _Z	V _F at I _F
		V			mA	V	nA	A	V	mV/°C	V mA
		MIN.	NOM.	MAX.							
MMBZ27VDA	TA7	25.65	27	28.35	1	22	80	1	38	30	1.1 200

Notes

⁽¹⁾ V_Z measured at pulse test current I_{ZT1} at an ambient temperature of 25 °C

⁽²⁾ Surge current waveform per figure 2 and derate per figure 3

Example MMBZ27VDA (NEW)

ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)												
PART NUMBER	MARKING CODE	ZENER VOLTAGE RANGE ⁽¹⁾			TEST CURRENT	WORKING PEAK REVERSE VOLTAGE	MAX. REVERSE LEAKAGE CURRENT	MAX. REVERSE SURGE CURRENT	MAX. REVERSE VOLTAGE (CLAMPING VOLTAGE) ⁽²⁾	MAX. TEMPERATURE COEFFICIENT	MAX. FORWARD VOLTAGE	
		V _Z at I _{ZT1}			I _{ZT1}	V _{RWM}	I _R at V _{RWM}	I _{PP}	V _C at I _{RSM}	V _Z	V _F at I _F	
		V			mA	V	nA	A	V	mV/°C	V	mA
		MIN.	NOM.	MAX.								
MMBZ27VDA	TA8	25.65	27	28.35	1	22	80	1	38	30	1.1	200

Notes

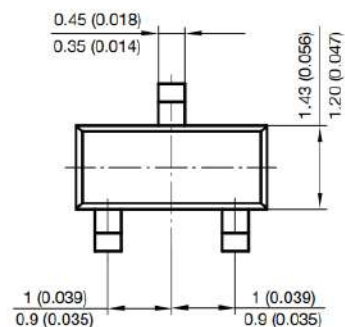
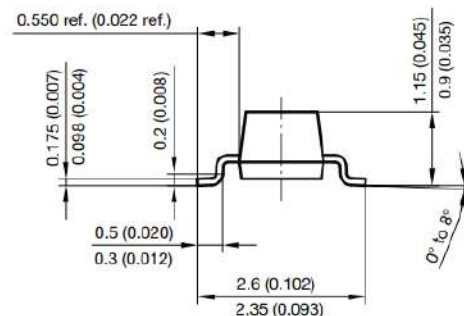
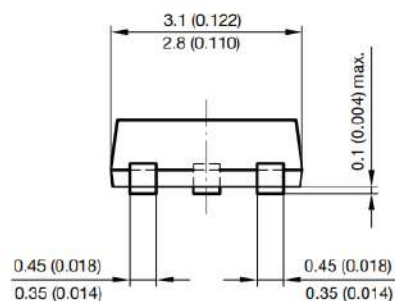
⁽¹⁾ V_Z measured at pulse test current I_{ZT1} at an ambient temperature of 25 °C

⁽²⁾ Surge current waveform per figure 2 and derate per figure 3

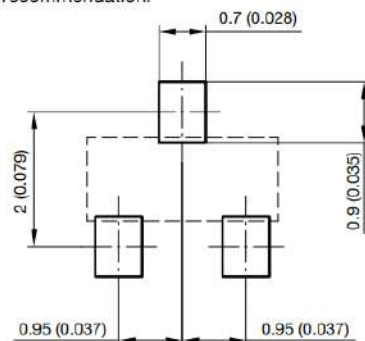
Data Sheet Comparison – Zener/Switching/Schottky/ESD (SOT-23)

(OLD)

PACKAGE DIMENSIONS in millimeters (inches): **SOT-23**



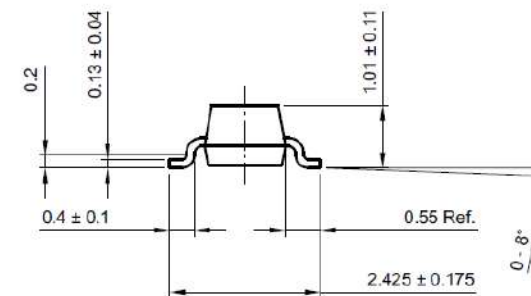
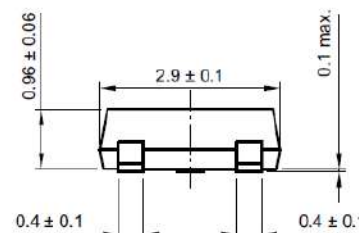
Foot print recommendation:



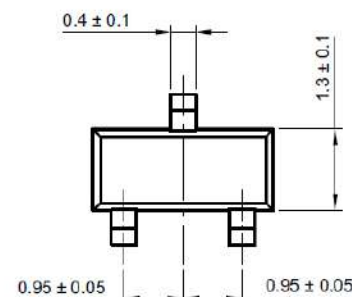
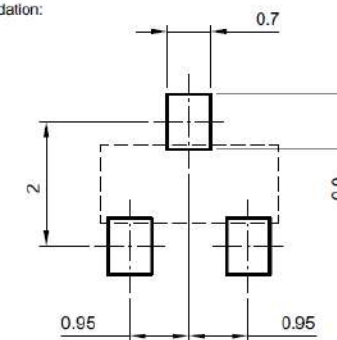
Document no.: 6.541-5014.01-4
Rev. 8 - Date: 23. Sep. 2009
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(NEW)

PACKAGE DIMENSIONS in millimeters (inches): **SOT-23**



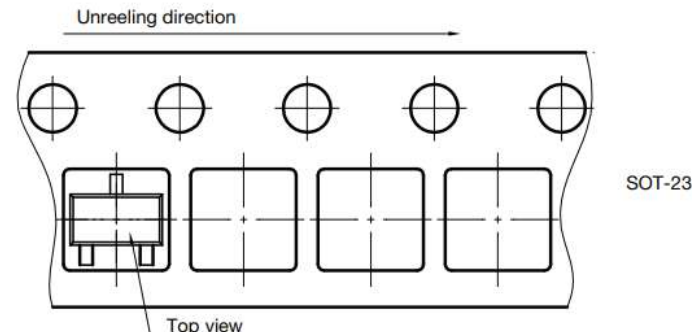
footprint recommendation:



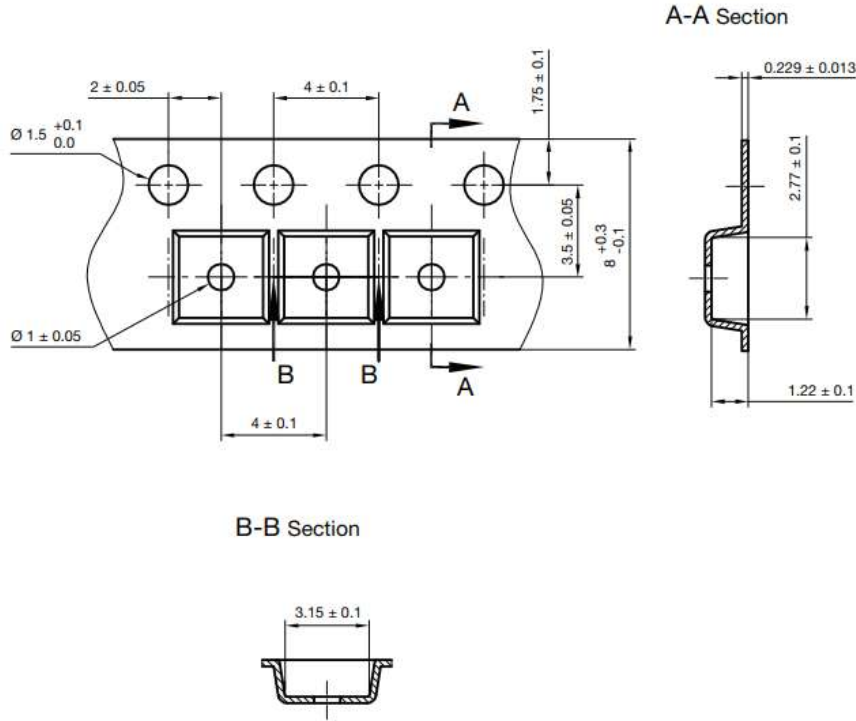
Document no.: S8-V-3020.01-006 (4)
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23193

Data Sheet Comparison – Zener/Switching/Schottky/ESD (SOT-23)

(OLD)	(NEW)
	ORIENTATION IN CARRIER TAPE SOT-23  Orientation in carrier tape SOT-23 S8-V-3929.01-006 (4) 04.02.2010 22607

Data Sheet Comparison – Zener/Switching/Schottky/ESD (SOT-23)

(OLD)	(NEW)
	CARRIER TAPE SOT-23  The technical drawing illustrates the Carrier Tape SOT-23 package. The top view shows a carrier tape with four SOT-23 components. Key dimensions include: hole diameter $\varnothing 1.5^{+0.1}_{0.0}$, hole spacing 2 ± 0.05, component pitch 4 ± 0.1, component width 1.75 ± 0.1, component height 3.5 ± 0.05, and overall tape width $8^{+0.3}_{-0.1}$. Section A-A shows a cross-section of the tape with dimensions 0.229 ± 0.013, 2.77 ± 0.1, and 1.22 ± 0.1. Section B-B shows a cross-section of the component with a width of 3.15 ± 0.1. Carrier tape SOT-23 Document no.: S8-V-3929.01-005 (4) Created - Date: 04. Feb. 2010 22856



END