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E502650

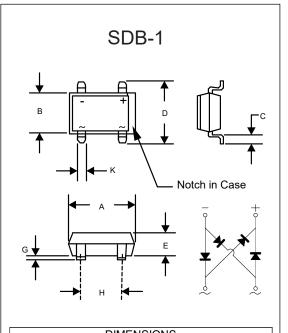
Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- Moisture Sensitivity Level 1
- Surface Mount Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix
 Designates Balls Compliant Case College ("P" Suffix
- Designates RoHS Compliant. See Ordering Information)

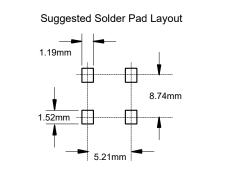
Maximum Ratings @ 25°C (Unless Otherwise Specified)

2 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

		Value							
Parameter	Symbol	SDB 201	SDB 202	SDB 203	SDB 204	SDB 205	SDB 206	SDB 207	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ $T_A=40^{\circ}C$	I _{F(AV)}	2				A			
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1	60							А
Non-Repetitive Peak Surge Current @ 1ms Square Wave	- I _{FSM}	120							A
Current Squared Time @1ms≤t≤8.3ms	l ² t	14.9				A²s			



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIN	MIN	MAX	MIN	MAX	NOTE		
А	0.316	0.335	8.05	8.51			
В	0.245	0.255	6.20	6.50			
С	0.040	0.060	1.02	1.50			
D	0.360	0.410	9.40	10.40			
Е	0.102	0.130	2.60	3.30			
G	0.003	0.013	0.076	0.33			
Н	0.195	0.205	5.00	5.20			
Κ	0.038	0.047	1.00	1.20			



Marking Code

Part Number	Marking Code
SDB201	SDB201
SDB202	SDB202
SDB203	SDB203
SDB204	SDB204
SDB205	SDB205
SDB206	SDB206
SDB207	SDB207

Internal Structure

Graphic Symbol		

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		15		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		40		°C/W

Note:

1.Device mounted on P.C.B with 35mm*25mm*1.7mm.

Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1A;T _J =25°C			1.1	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			10 500	μA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		18		pF





Curve Characteristics

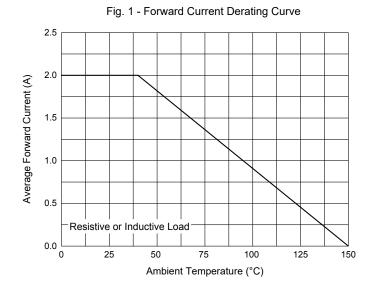
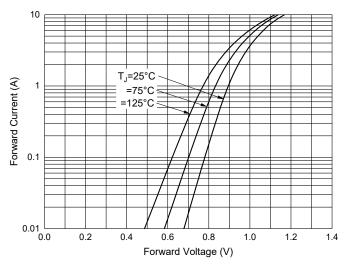
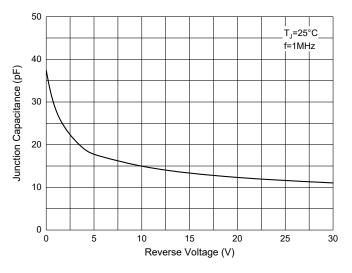


Fig. 3 - Typical Forward Characteristics







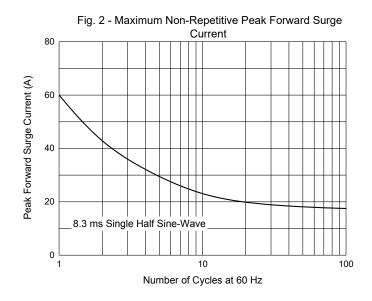
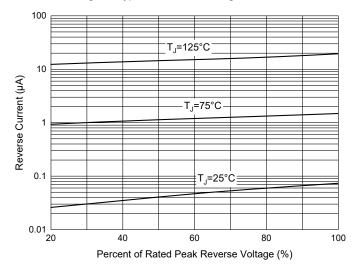


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:1.5Kpcs/Reel		
Part Number-BP	Bulk:50pcs/Tube,5K/Box,20K/Carton		

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