

Features

- AEC-Q101 Qualified
- V_Z – tolerance: $\pm 5\%$
- For Surface Mount Applications
- Halogen Free. “Green” Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note2) (“P” Suffix designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -65°C to $+150^{\circ}\text{C}$
- Storage Temperature Range: -65°C to $+150^{\circ}\text{C}$
- Thermal Resistance : 100°C/W Junction to Ambient
- Thermal Resistance : 75°C/W Junction to Lead

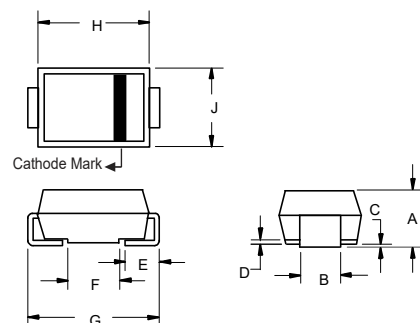
Parameter	Symbol	Rating	Conditions
Power Dissipation	P_D	1.0W	$T_A \leq 50^{\circ}\text{C}$
Zener Current	I_Z	P_D/V_Z mA	
Maximum Forward Voltage	V_F	1.2V	$I_F = 100\text{mA}$

Note:

1. Halogen free “Green” products are defined as those which contain $<900\text{ppm}$ bromine, $<900\text{ppm}$ chlorine ($<1500\text{ppm}$ total Br + Cl) and $<1000\text{ppm}$ antimony compounds.
2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

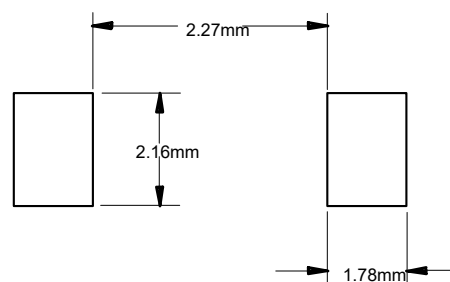
1 Watt Zener Diode 10 to 100 Volts

SMA (DO-214AC) LEAD FRAME



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.075	0.096	1.90	2.44	
B	0.050	0.064	1.27	1.63	
C	0.002	0.008	0.051	0.203	
D	---	0.020	---	0.51	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.189	0.220	4.80	5.59	
H	0.157	0.187	4.00	4.75	
J	0.090	0.115	2.25	2.92	

SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Zener Voltage	Test Current	Maximum Dynamic Impedance	Knee Current	Knee Impedance	Maximum Reverse Current	Reverse Voltage	Marking Code
	V_Z	I_{ZT}	$Z_{ZT} @ I_{ZT}$	I_{ZK}	Z_{ZK}	I_R	V_R	
	V	mA	Ω	mA	Ω	μA	V	
SMAJ4740AHE3	10	25	7	0.25	700	0.5	7.6	740A
SMAJ4741AHE3	11	23	8	0.25	700	0.1	8.4	741A
SMAJ4742AHE3	12	21	9	0.25	700	0.1	9.1	742A
SMAJ4743AHE3	13	19	10	0.25	700	0.1	9.9	743A
SMAJ4744AHE3	15	17	14	0.25	700	0.1	11.4	744A
SMAJ4745AHE3	16	15.5	16	0.25	700	0.1	12.2	745A
SMAJ4746AHE3	18	14	20	0.25	750	0.1	13.7	746A
SMAJ4747AHE3	20	12.5	22	0.25	750	0.1	15.2	747A
SMAJ4748AHE3	22	11.5	23	0.25	750	0.1	16.7	748A
SMAJ4749AHE3	24	10.5	25	0.25	750	0.1	18.2	749A
SMAJ4750AHE3	27	9.5	35	0.25	750	0.1	20.6	750A
SMAJ4751AHE3	30	8.5	40	0.25	1000	0.1	22.8	751A
SMAJ4752AHE3	33	7.5	45	0.25	1000	0.1	25.1	752A
SMAJ4753AHE3	36	7	50	0.25	1000	0.1	27.4	753A
SMAJ4754AHE3	39	6.5	60	0.25	1000	0.1	29.7	754A
SMAJ4755AHE3	43	6	70	0.25	1500	0.1	32.7	755A
SMAJ4756AHE3	47	5.5	80	0.25	1500	0.1	35.8	756A
SMAJ4757AHE3	51	5	95	0.25	1500	0.1	38.8	757A
SMAJ4758AHE3	56	4.5	110	0.25	2000	0.1	42.6	758A
SMAJ4759AHE3	62	4	125	0.25	2000	0.1	47.1	759A
SMAJ4760AHE3	68	3.7	150	0.25	2000	0.1	51.7	760A
SMAJ4761AHE3	75	3.3	175	0.25	2000	0.1	56	761A
SMAJ4762AHE3	82	3	200	0.25	3000	0.1	62.2	762A
SMAJ4763AHE3	91	2.8	250	0.25	3000	0.1	69.2	763A
SMAJ4764AHE3	100	2.5	350	0.25	3000	0.1	76	764A

Curve Characteristics

Fig. 1 - Power Derating Curve

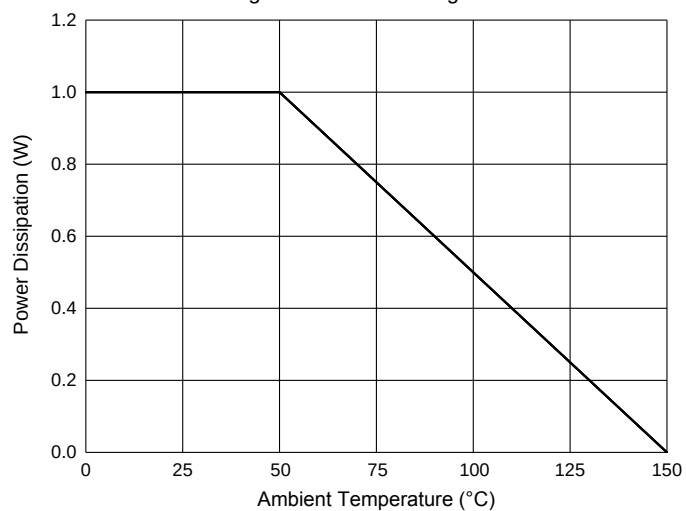
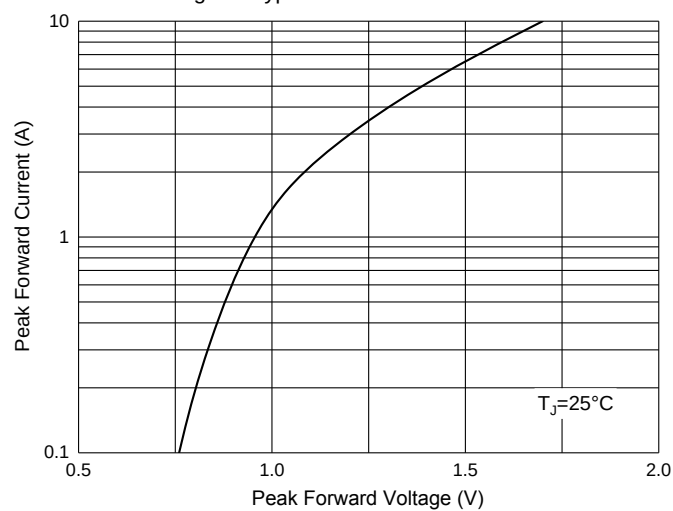


Fig. 2 - Typical Forward Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:7.5Kpcs/Reel

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<u>SMAJ4745AHE3-TP</u>	<u>SMAJ4746AHE3-TP</u>	<u>SMAJ4747AHE3-TP</u>	<u>SMAJ4748AHE3-TP</u>	<u>SMAJ4749AHE3-TP</u>
<u>SMAJ4750AHE3-TP</u>	<u>SMAJ4751AHE3-TP</u>	<u>SMAJ4752AHE3-TP</u>	<u>SMAJ4753AHE3-TP</u>	<u>SMAJ4754AHE3-TP</u>
<u>SMAJ4755AHE3-TP</u>	<u>SMAJ4756AHE3-TP</u>	<u>SMAJ4757AHE3-TP</u>	<u>SMAJ4758AHE3-TP</u>	<u>SMAJ4759AHE3-TP</u>
<u>SMAJ4760AHE3-TP</u>	<u>SMAJ4761AHE3-TP</u>	<u>SMAJ4762AHE3-TP</u>	<u>SMAJ4763AHE3-TP</u>	<u>SMAJ4764AHE3-TP</u>