

Features

- For Surface Mounted Applications in Order to Optimize Board Space
- Glass Passivated Junction
- Excellent Clamping Capability
- High Temp Soldering: 260°C / 40 Seconds At Terminals
- 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)

600Watts TVS 5.0 to 13 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C

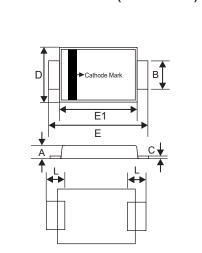
Peak Pulse Power Surge Current with a 10/1000µs Waveform	I _{PPM}	See the Table	Note 3
Peak Pulse Power Dissipation	P _{PPM}	600W(Min.)	Note 3,4

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.
- 3.Non-repetitive current pulse, per Fig.2 and derated above $T_{\text{A}}\text{=}25\ ^{\circ}\text{C}$ per Fig.1

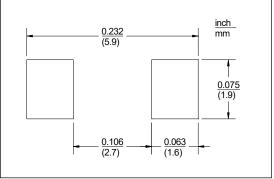
4.Peak pulse power waveform is 10/1000 μs



DO-221AC(SMA-FL)

	DIMENSIONS				
DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	0.035	0.049	0.90	1.25	
В	0.049	0.065	1.25	1.65	
С	0.004	0.016	0.10	0.40	
D	0.089	0.116	2.25	2.95	
E	0.173	0.220	4.40	5.60	
E1	0.126	0.181	3.20	4.60	
L	0.020	0.059	0.50	1.50	

Suggested Solder Pad Layout



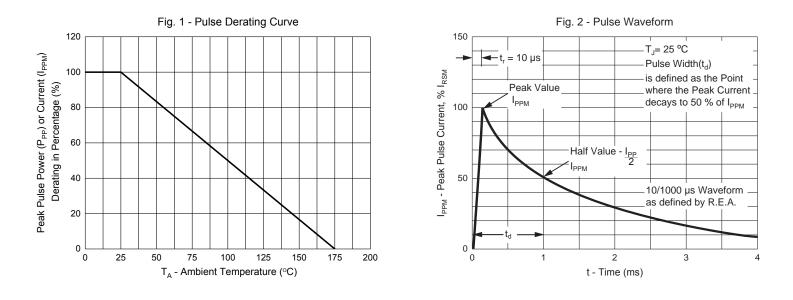




MCC PART NUMBER	DEVICE STAND- OF	REVERSE STAND- OFF VOLTAGE	BREAKDOWN VOLTAGE V _{BR} (V) @I _T		TEST CURRENT I _T (mA)	MAXIMUM CLAMPING VOLTAGE @I _{pp} Vc(V)	PEAK PULSE CURRENT I _{pp} (A)	REVER LEAKA @V _{RWM} I _R (µA)
CODE	V _{RWM} (V)	MIN	MAX					
SMA6F5.0A	SUA	5.0	6.40	7.07	10	9.2	68.0	800
SMA6F12A	SUJ	12	13.30	14.70	1	18.5	31.0	5.0
SMA6F13A	SUG	13	14.40	15.90	1	20.4	29.0	5.0



Curve Characteristics





Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel: 10Kpcs/Reel

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