

Features

- · Ideal for Automated Placement
- · High Surge Current Capability
- · Bi-directional TVS
- · Glass Passivated Junction
- · Low Clamping Voltage Under Surge
- · Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

Peak Pulse Current(8/20μs)	I _{PP}	2500A
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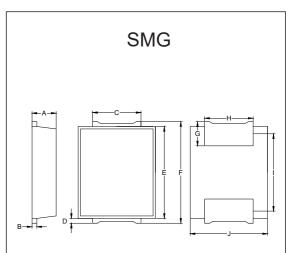
Note:

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

Pin Configuration

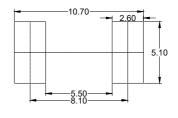


Surface Mount Transient Voltage Suppressor



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOIE
Α	0.096	0.100	2.45	2.55	
В	0.018	0.022	0.45	0.55	
С	0.193	0.201	4.90	5.10	
D	0.016	0.024	0.40	0.60	
E	0.370	0.378	9.40	9.60	
F	0.406	0.421	10.30	10.70	
G	0.094	0.102	2.40	2.60	
Н	0.193	0.201	4.90	5.10	
J	0.311	0.319	7.90	8.10	
I	0.311	0.319	7.90	8.10	

Suggested Solder Pad Layout

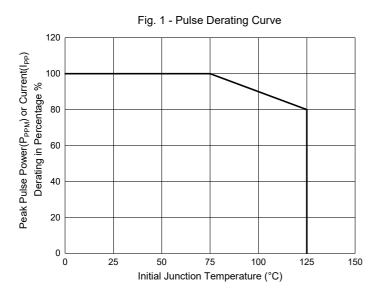




Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Part Number	Breakdown V _{BR} (\	•	Test Current	Maximum Reverse Leakage @V _{RWM}	Working Peak Reverse Voltage	Typical. Capacitance 0V Bias 10kHz	Maximum Clamping Voltage (8/20µs) @ IPP	Peak Pulse Current (8/20µs)	Marking Code
	Min.	Max.	I _⊤ (mA)	I _R (µA)	V _{RWM} (V)	C(nF)	V _C (V)	I _{PP} (A)	
SMGJ80CA	90	110	1	5	80	1.5	130	2500	80CA

Curve Characteristics



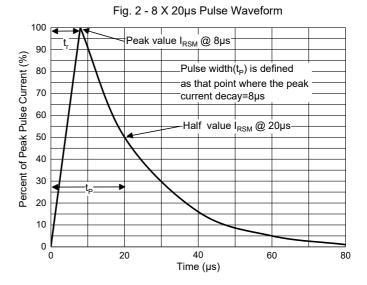


Fig. 3 - Typical VBR vs. Junction Temperature

8
6
4
2
4
-6
-8
-75
-50
-25
0
25
50
75
100

Junction Temperature (°C)



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 1500pcs/Reel

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