

**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 <sub>PP</sub>	2500A
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Note:

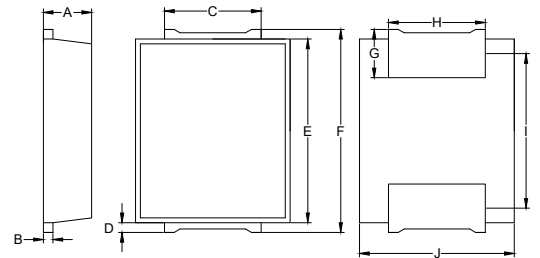
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Pin Configuration



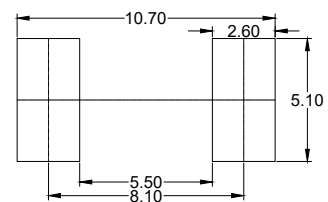
**Surface Mount  
Transient Voltage  
Suppressor**

**SMG**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.096	0.100	2.45	2.55	
B	0.018	0.022	0.45	0.55	
C	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	
H	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 Voltage $V_{BR}(V)$		Test Current	Maximum Reverse Leakage @ $V_{RWM}$	Working Peak Reverse Voltage	Typical Capacitance 0V Bias 10kHz	Maximum Clamping Voltage (8/20 $\mu$ s) @ IPP	Peak Pulse Current (8/20 $\mu$ s)	Marking Code
	Min.	Max.	$I_T(mA)$	$I_R(\mu A)$	$V_{RWM}(V)$	C(nF)	$V_C(V)$	$I_{PP}(A)$	
SMGJ80CA	90	110	1	5	80	1.5	130	2500	80CA

**Curve Characteristics**

Fig. 1 - Pulse Derating Curve

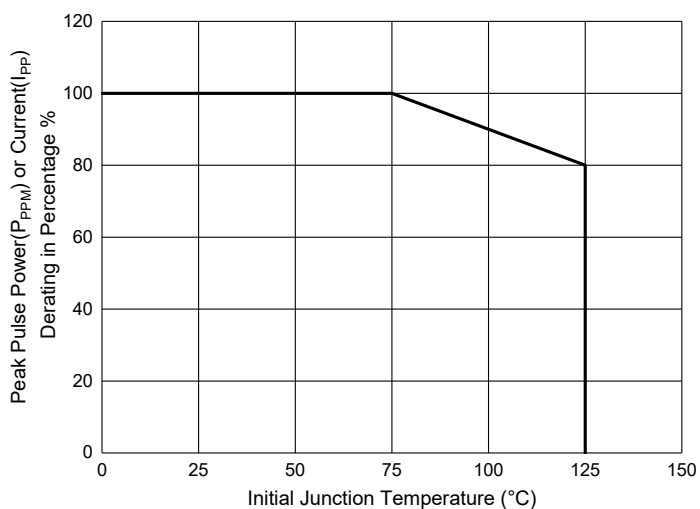


Fig. 2 - 8 X 20 $\mu$ s Pulse Waveform

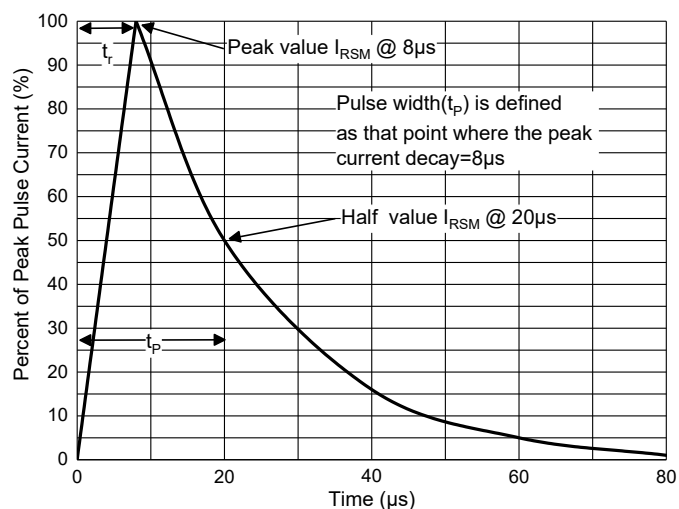
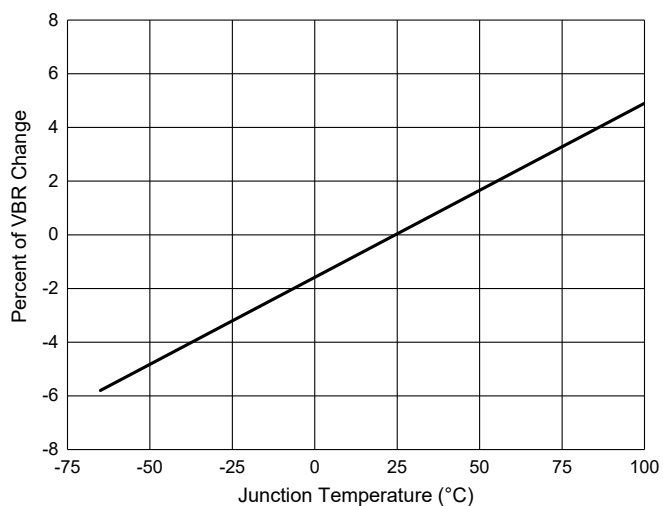


Fig. 3 - Typical VBR vs. Junction Temperature



## Ordering Information

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

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