

### Features

- Ideal for Automated Placement
- High Surge Current Capability
- Bi-directional TVS
- Glass Passivated Junction
- Low Clamping Voltage Under Surge
- Vacuum Soldering Process Minimize the Solder Voids
- 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>	10000A
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Note:

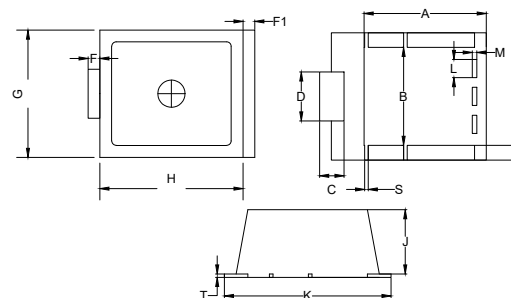
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Pin Configuration



# Surface Mount Transient Voltage Suppressor

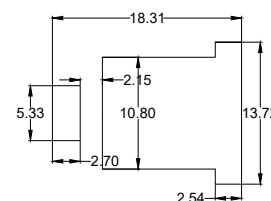
## SME



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.518	0.542	13.16	13.76	
B	0.415	0.435	10.55	11.05	
C	0.098	0.114	2.50	2.90	
D	0.203	0.222	5.15	5.65	
F	0.047	0.055	1.20	1.40	
F1	0.047	0.055	1.20	1.40	
G	0.530	0.575	13.45	14.60	
H	0.610	0.632	15.50	16.05	
J	0.273	0.285	6.94	7.24	
K	0.713	0.728	18.10	18.50	
L	0.075	0.083	1.90	2.10	
M	0.016	0.024	0.40	0.60	
N	0.055	0.063	1.40	1.60	
T	0.013	0.017	0.33	0.43	
S	0.014	0.018	0.35	0.45	

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) @ $I_{PP}$	Peak Pulse Current (8/20 $\mu$ s)	Marking Code
	Min.	Max.	$I_T(mA)$	$I_R(\mu A)$	$V_{RWM}(V)$	C(nF)	$V_C(V)$	$I_{PP}(A)$	
SMEJ58CA	64	70	10	5	58	6.5	110	10000	58CA
SMEJ66CA	72	80	10	5	66	6.5	120	10000	66CA
SMEJ76CA	85	95	10	5	76	6.5	135	10000	76CA
SMEJ86CA	96	107	10	5	86	6.0	157	10000	86CA

**Curve Characteristics**

Fig. 1 - Pulse Derating Curve

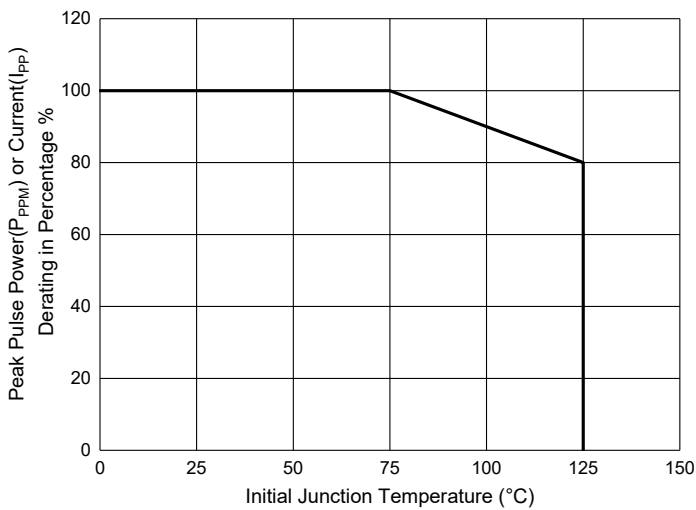


Fig. 2 - 8 X 20 $\mu$ s Pulse Waveform

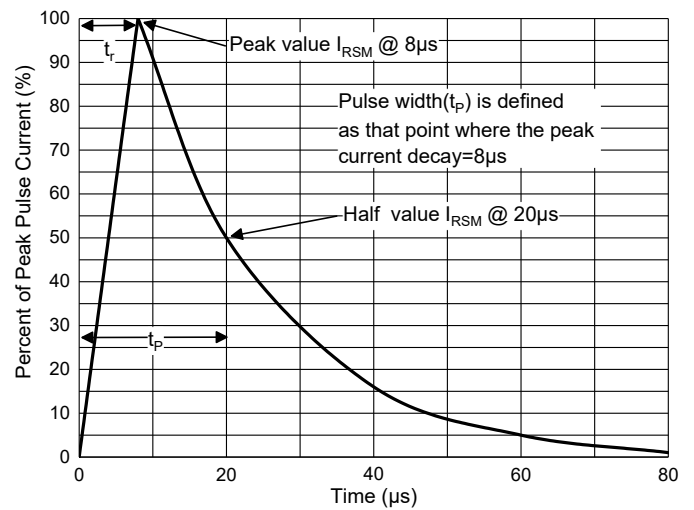
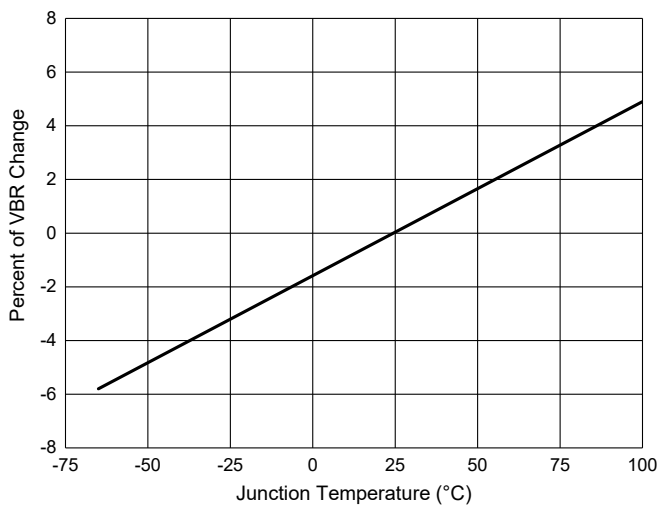


Fig. 3 - Typical VBR vs. Junction Temperature



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 400pcs/Reel

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