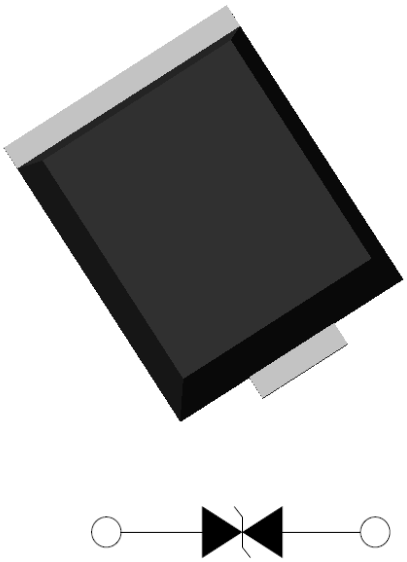
Surface Mount Transient Voltage Suppressor



Features

- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Bi-directional TVS
- Glass passivated junction
- Low clamping voltage under surge

Typical Applications

- High power DC bus protection

Mechanical Data

- **Package**: SME
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

■Maximum Ratings (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Peak pulse current rating per 8/20μs IEC 61000-4-5	Ipp	A	10000
Storage temperature	Tstg	℃	-55 ~+150
Junction temperature	Tj	℃	-55 ~+125

■ Electrical Characteristics (TA=25℃ unless otherwise noted)

Part Number (Bi)	Breakdown Voltage VBR@IT			Maximum Reverse Leakage IR @VRWM (μA)	Working Peak Reverse Voltage VRWM (V)	Typical. Capacitance 0V Bias 10kHz (nF)	Maximum Clamping Voltage Vc @ IPP (V)
	Min (V)	Max (V)	IT (mA)				
SMEJ58CA	64	70	10	5	58	6.5	110
SMEJ66CA	72	80	10	5	66	6.5	120
SMEJ76CA	85	95	10	5	76	6.5	135
SMEJ86CA	96	107	10	5	86	6.0	157

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SMEJ	F1	Approximate 5.10	400	800	4000	13” reel

■ Performance Graphs

FIG.1 Pulse Derating Curve

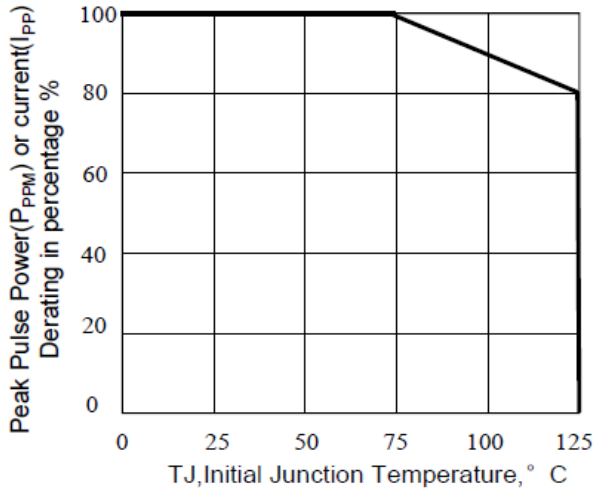


Fig.2 Current 8/20us Waveform per IEC 6100-4-5

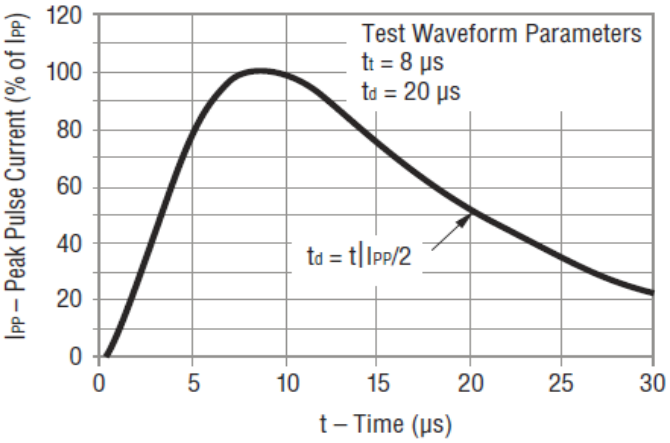
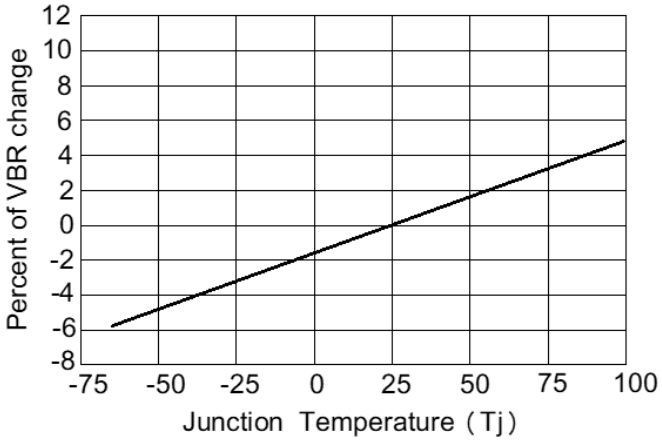
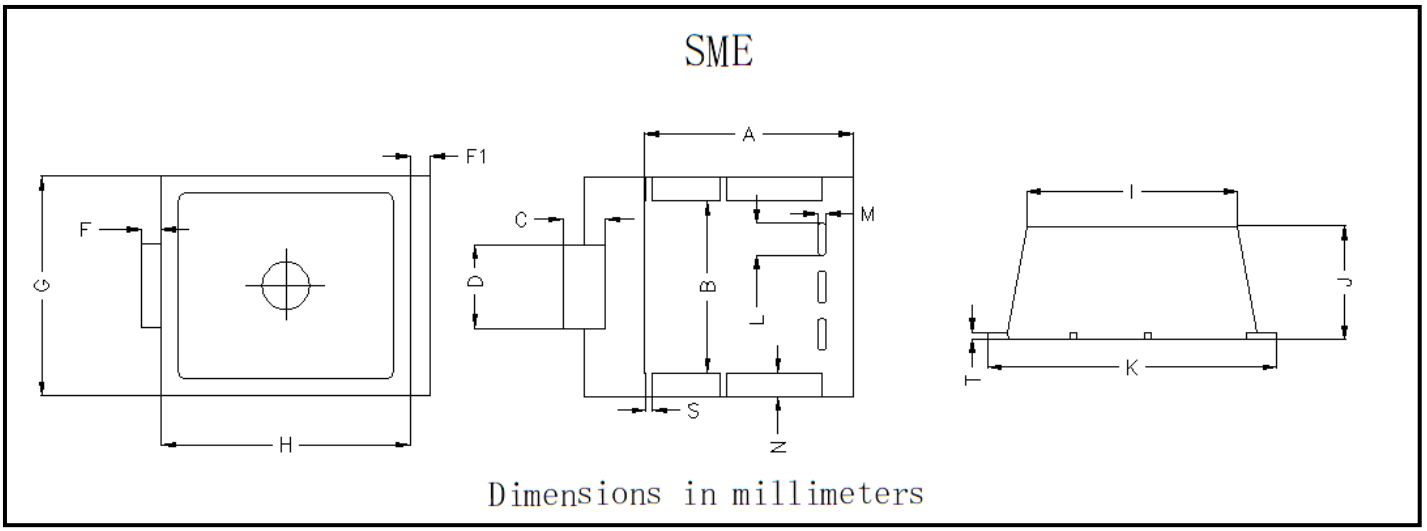


FIG.3: Typical VBR vs. junction temperature

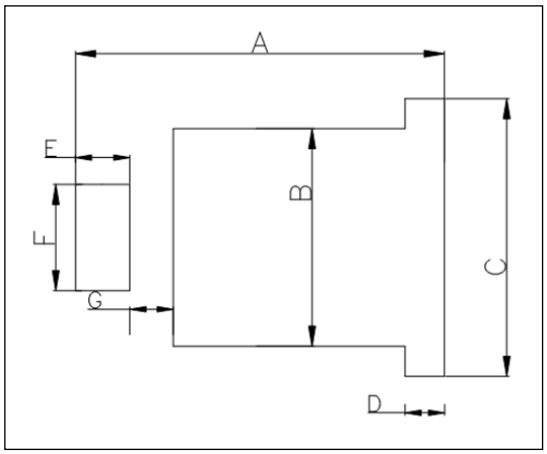


■ Outline Dimensions



SME		
Dim	Min	Max
A	13.16	13.76
B	10.55	11.05
C	2.50	2.90
D	5.15	5.65
F1	1.20	1.40
F	1.20	1.40
G	13.45	14.60
H	15.50	16.05
J	6.94	7.24
K	18.1	18.5
L	1.9	2.1
M	0.4	0.6
N	1.4	1.6
T	0.33	0.43
S	0.35	0.45

■ Suggested pad layout



Dim	Millimeters
A	18.31
B	10.80
C	13.72
D	2.54
E	2.70
F	5.33
G	2.15

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