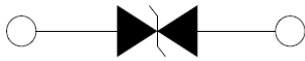
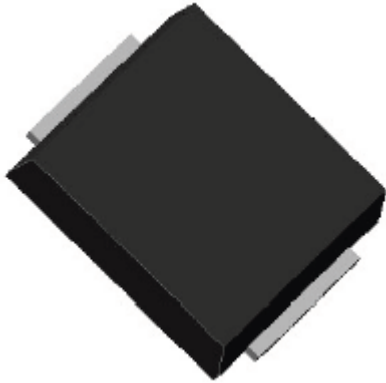


## Surface Mount Transient Voltage Suppressor



### 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:** SMG  
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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Peak pulse current rating per 8/20µs IEC 61000-4-5	I <sub>pp</sub>	A	2500
Storage temperature	T <sub>stg</sub>	°C	-55 ~+150
Junction temperature	T <sub>j</sub>	°C	-55 ~+125

### ■ Electrical Characteristics (TA=25°C unless otherwise noted)

Breakdown Voltage VBR@IT			Maximum Reverse Leakage I <sub>R</sub> @V <sub>RWM</sub> (µA)	Working Peak Reverse Voltage V <sub>RWM</sub> (V)	Typical Capacitance 0V Bias 10kHz (nF)	Maximum Clamping Voltage V <sub>c</sub> @ I <sub>pp</sub> (V)
Min (V)	Max (V)	I <sub>T</sub> (mA)				
90	110	1	5	80	1.5	130

## ■ Performance Graphs

FIG.1 V-I Characteristic

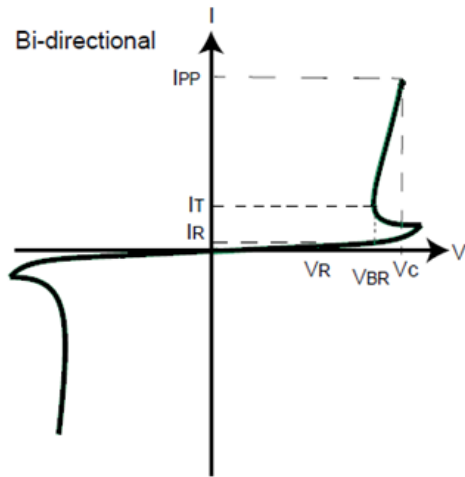


FIG.2 Pulse Derating Curve

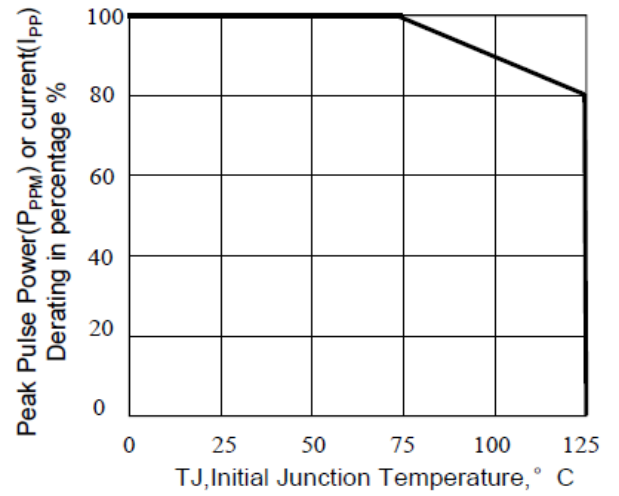


FIG.3 Current 8/20us Waveform per IEC 6100-4-5

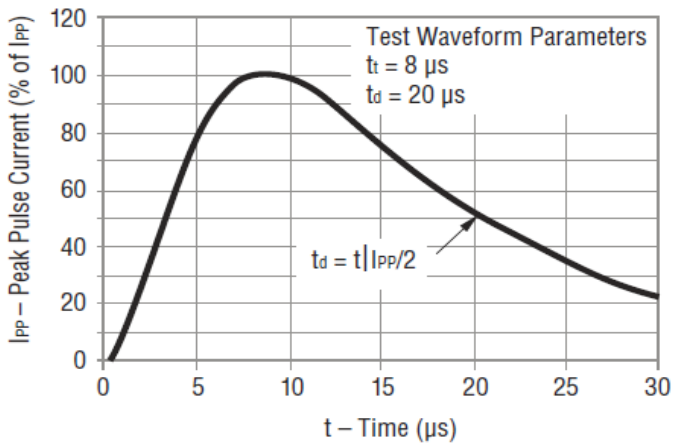
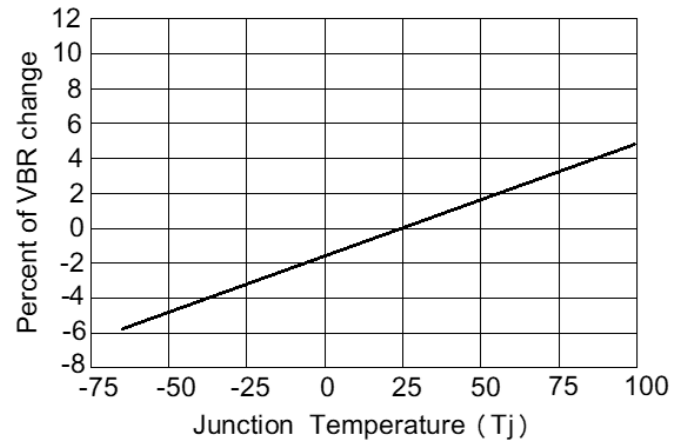


FIG.4: Typical VBR vs. junction temperature



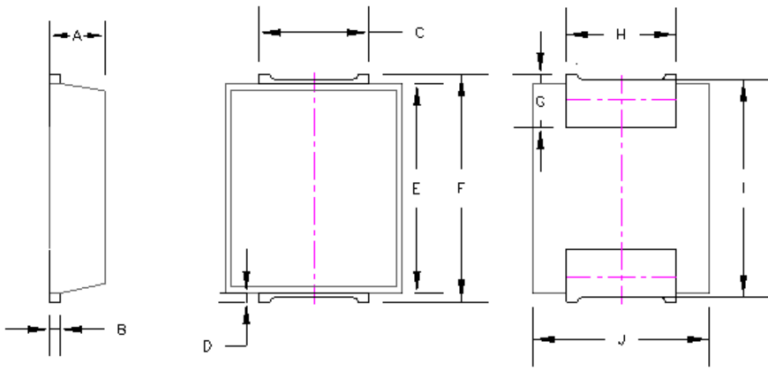
## ■ Ordering Information(Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SMGJ SERIES	F1	Approximate 0.60	1500	3000	15000	15" reel



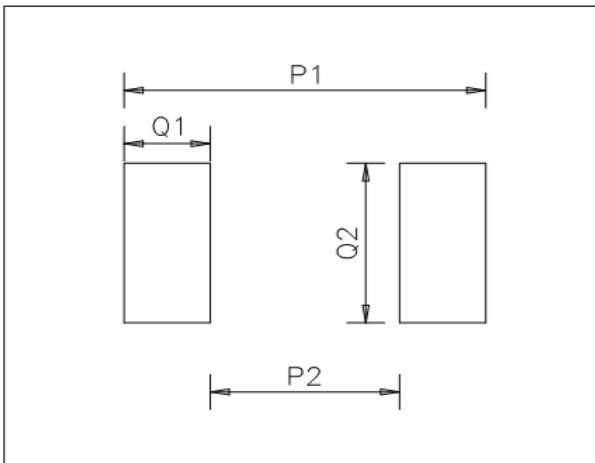
# SMGJ80CA

## ■ Outline Dimensions



SMG		
Dim	Min	Max
A	2.45	2.55
B	0.45	0.55
C	4.90	5.10
D	0.40	0.60
E	9.20	9.60
F	10.20	10.60
G	2.30	2.50
H	4.90	5.10
J	7.90	8.10
I	9.9	10.10

## ■ Suggested pad layout



Dim	Millimeters
P1	10.70
P2	5.60
Q1	2.60
Q2	5.10



## SMGJ80CA

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