# 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, -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	lpp	А	2500
Storage temperature	Tstg	°C	-55 ~+150
Junction temperature	Tj	°C	-55 ~+125

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

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

#### Performance Graphs

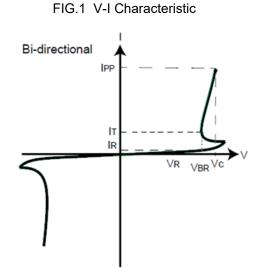


FIG.2 Pulse Derating Curve

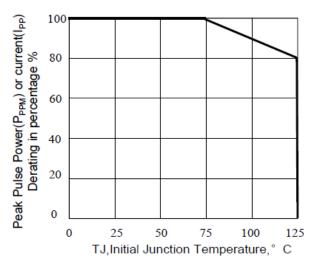


FIG.3 Current 8/20us Waveform per IEC 6100-4-5

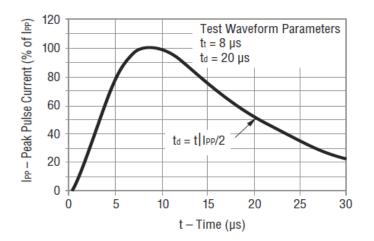
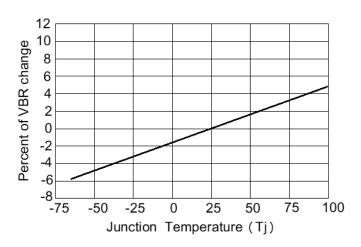


FIG.4: Typical VBR vs. junction temperature

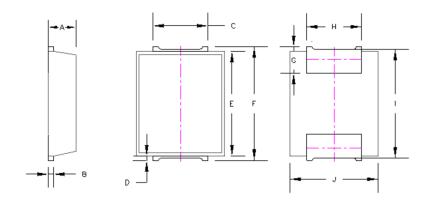


#### Ordering Information(Example)

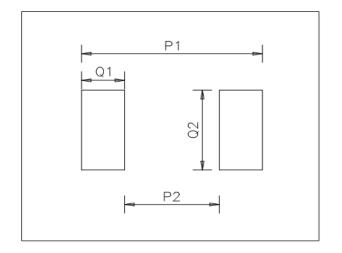
PREFERED	PACKAGE	UNIT WEIGHT(g)	MINIMUM	INNER BOX	OUTER CARTON	DELIVERY
P/N	CODE		PACKAGE(pcs)	QUANTITY(pcs)	QUANTITY(pcs)	MODE
SMGJ SERIES	F1	Approximate 0.60	1500	3000	15000	15" reel



Outline Dimensions



### Suggested pad layout



	SMG	
Dim	Min	Max
А	2.45	2.55
В	0.45	0.55
С	4.90	5.10
D	0.40	0.60
E	9.20	9.60
F	10.20	10.60
G	2.30	2.50
Н	4.90	5.10
J	7.90	8.10
I	9.9	10.10

Dim	Millimeters	
P1	10.70	
P2	5.60	
Q1	2.60	
Q2	5.10	



## SMGJ80CA

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