

### **Features**

- · For Surface Mount Applications in Order to Optimize Board Space
- Fast Response Time: Typical Less Than 1.0ps From 0 Volts to  $V_{\text{B}}$  Minimum
- · Low Inductance
- · Excellent Clamping Capability
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 2) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

## **Mechanical Data**

• Terminals: Solderable Per MIL-STD-750, Method 2026

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 20°C/W Junction to Lead
- Thermal Resistance : 25°C/W Junction to Case

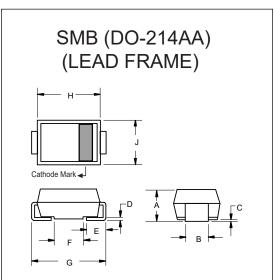
# Electrical Characteristics @ 25°C Unless Otherwise Specified

Peak Pulse Power Surge Current on 10/1000µs Waveform	I <sub>PP</sub>	See the Table	Note 3
Peak Pulse Power Dissipation	$P_PP$	600W	Note 3

### Notes:

- 1. Halogen free "Green"products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
- 3. Non-repetitive current pulse, per Fig.3 and derated above  $T_A$ =25 °C per Fig.2.

# 600 Watt TVS 250 to 400 Volts



DIMENSIONS					
DIM INCH		HES MM		NOTE	
		MAX	MIN	MAX	NOIL
Α	0.079	0.103	2.00	2.62	
В	0.075	0.087	1.91	2.21	
С	0.002	0.008	0.05	0.20	
D	0.006	0.012	0.15	0.31	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.200	0.220	5.08	5.59	
Н	0.160	0.191	4.06	4.85	
J	0.130	0.155	3.30	3.94	

# Suggested Solder Pad Layout 1.80mm 2.30mm 2.50mm



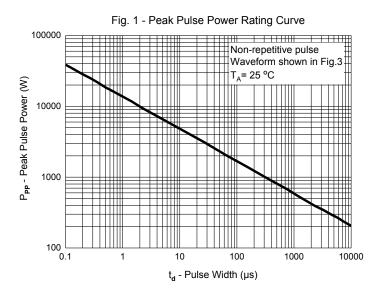
# Electrical Characteristics @ 25°C Unless Otherwise Specified

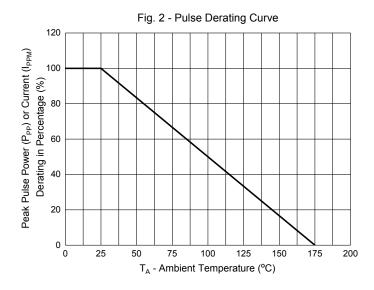
MCC PART NUMBER	REVERSE STAND-OFF VOLTAGE V <sub>WM</sub>	BREAKDOWN VOLTAGE V <sub>(BR)</sub> @I <sub>T</sub> (VOLTS)		MAXIMUM CLAMPING VOLTAGE@I <sub>PP</sub>	PEAK PULSE CURRENT I <sub>PP</sub>	MAXIMUM REVERSE LEAKAGE @ V <sub>WM</sub> I <sub>D</sub>	MARKING CODE	
	VOLTS	MIN	MAX	$I_T(mA)$	VOLTS	(AMPS)	(µA)	
SMBJP6KE250AL	214.00	237.00	263.00	1	344.0	1.9	1	250AL
SMBJP6KE300AL	256.00	285.00	315.00	1	414.0	1.5	1	300AL
SMBJP6KE350AL	300.00	332.00	368.00	1	482.0	1.3	1	350AL
SMBJP6KE400AL	342.00	380.00	420.00	1	548.0	1.1	1	400AL

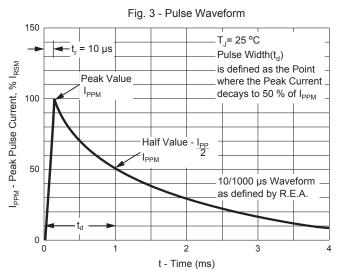
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# **Curve Characteristics**







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# **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

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