

Features

- For Surface Mount Applications in Order to Optimize Board Space
- Fast Response Time: Typical Less Than 1.0ps From 0 Volts to $V_{\rm B}$ 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

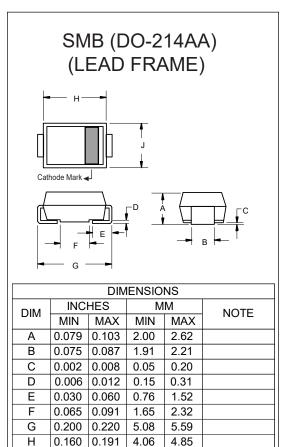
Electrical Characteristics @ 25°C Unless Otherwise Specified

Peak Pulse Power Surge Current on 10/1000µs Waveform	I _{PP}	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 $T_A\mbox{=}25\ ^\circ\mbox{C}$ per Fig.2.





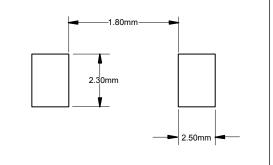
Suggested Solder Pad Layout

3.30

3.94

0.130 0.155

J



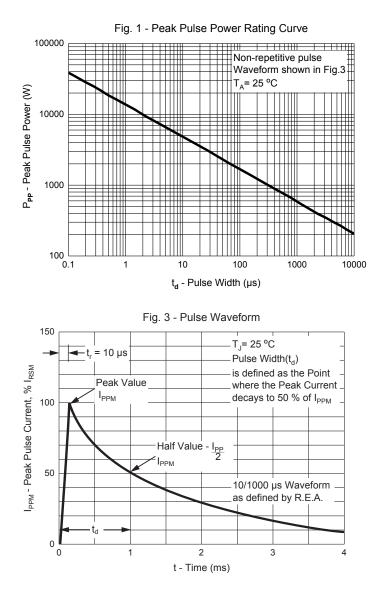


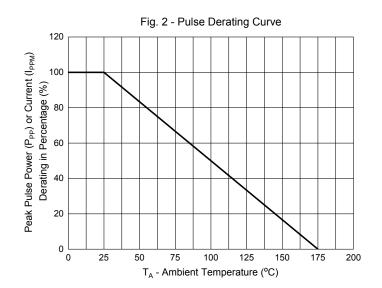
Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC PART NUMBER	REVERSE STAND-OFF VOLTAGE V _{WM}	BREAKDOWN VOLTAGE V _(BR) @I _T (VOLTS)		MAXIMUM CLAMPING VOLTAGE@I _{PP}	PEAK PULSE CURRENT I _{PP}	MAXIMUM REVERSE LEAKAGE @V _{WM} I _D	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



Curve Characteristics







Ordering Information

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

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