

## Maximum Ratings @TA = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation	0	600	W
(Non repetitive current pulse derated above $T_A = 25^{\circ}$ C) (Note 4)	$P_{PK}$	800	VV
Peak Power Derating Above 25°C	P <sub>der</sub>	4.8	W/°C
Peak Forward Surge Current, 8.3ms Single Half Sine Wave Superimposed on Rated Load (Notes 4 & 5)	I <sub>FSM</sub>	100	А
Steady State Power Dissipation @ T <sub>L</sub> = 75°C	PM <sub>(AV)</sub>	5.0	W
Instantaneous Forward Voltage @ I <sub>PP</sub> = 35A (Notes 4 & 5)	$V_{F}$	5.0	V

### **Thermal Characteristics**

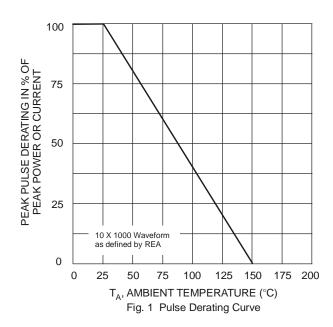
Characteristic	Symbol	Value	Unit
Operating Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +175	°C

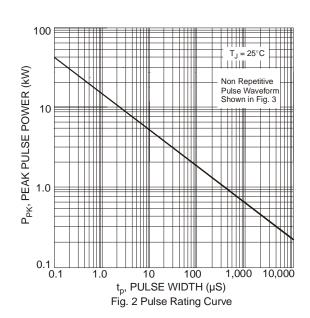
### Electrical Characteristics @T<sub>A</sub> = 25°C unless otherwise specified

Part Number	Reverse Standoff Voltage		down age (Note 6)	Test Current	Max. Reverse Leakage @ V <sub>RWM</sub>	Max. Clamping Voltage @ I <sub>pp</sub>	Max. Peak Pulse Current I <sub>pp</sub>	Marking Code
See Note 5	V <sub>RWM</sub> (V)	Min (V)	Max (V)	I <sub>T</sub> (mA)	I <sub>R</sub> (μΑ)	V <sub>C</sub> (V)	(A)	-
SMBJ350A	350.0	391.0	432.0	1.0	5.0	567.0	1.1	QG

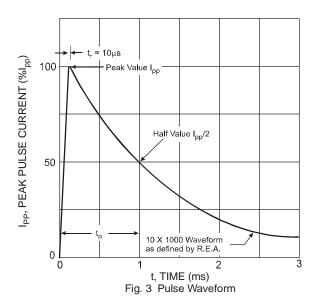
Notes:

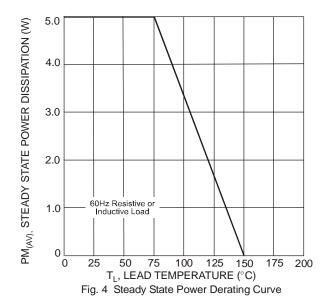
- 4. Valid provided that terminals are kept at ambient temperature.
- 5. Measured with 8.3ms single half sine-wave. Duty cycle = 4 pulses per minute maximum.
- 6.  $V_{BR}$  measured with  $I_T$  current pulse =  $300 \mu s$



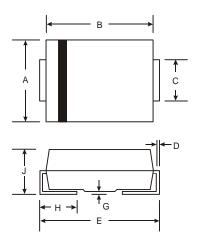






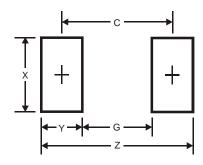


## **Package Outline Dimensions**



SMB					
Dim	Min	Max			
Α	3.30	3.94			
В	4.06	4.57			
С	1.96	2.21			
D	0.15	0.31			
Е	5.00	5.59			
G	0.05	0.20			
Н	0.76	1.52			
J	2.00	2.50			
All Dimensions in mm					

# Suggested Pad Layout



Dimensions	Value (in mm)
Z	6.8
G	1.8
Х	2.3
Υ	2.5
С	4.3



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