

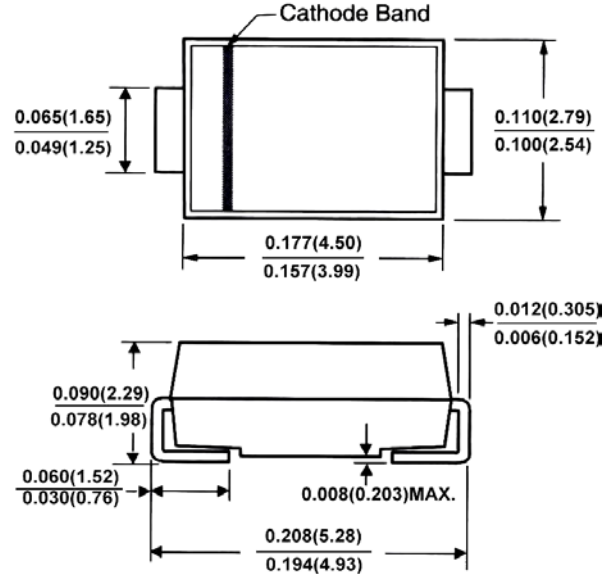


Features

- Glass Passivated Die Construction
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



Dimensions in inches (millimeters)

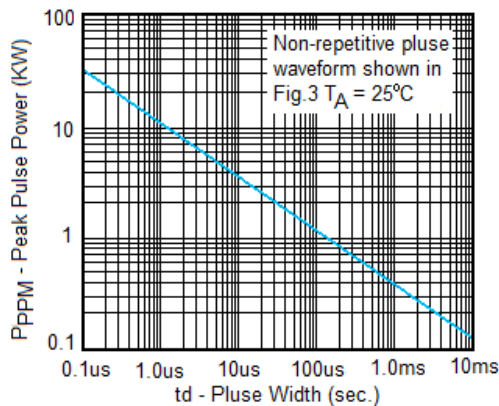
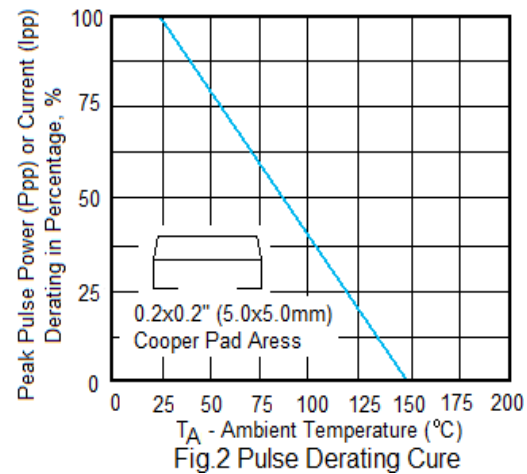
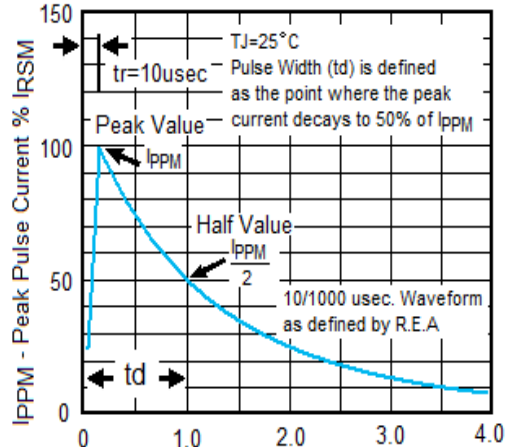
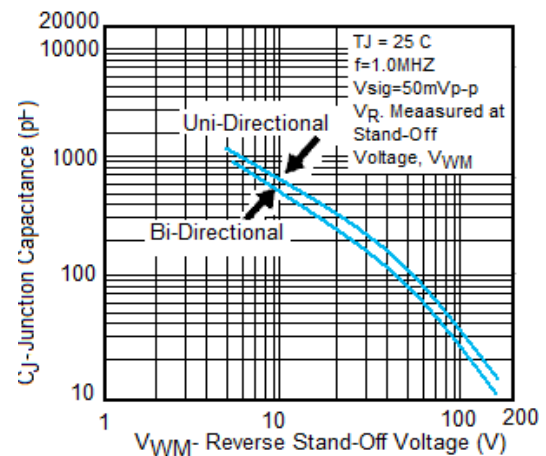
Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation (Non repetitive current pulse derated above $T_A = 25^\circ\text{C}$) (Note 1)	P_{PK}	400	W
Peak Forward Surge Current, 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) (Notes 1, 2, & 3)	I_{FSM}	40	A
Instantaneous Forward Voltage @ $I_{PP} = 35\text{A}$ (Notes 1, 2, & 3)	V_F	3.5	V
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

- Notes:
1. Valid provided that terminals are kept at ambient temperature.
 2. Measured with 8.3ms single half sine-wave. Duty cycle = 4 pulses per minute maximum.
 3. Unidirectional units only.

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Part Number		Marking		V_R	$I_R @ V_R$	$V_{BR} @ I_T$		I_T	$V_C @ I_{PP}$	$I_{PP}^{(1)}$
Uni-polar	Bi-polar	Uni	Bi	(V)	μA	min(V)	max(V)	mA	V	A
SMAJ6.8A	SMAJ6.8CA	6V8A	6V8CA	5.8	120	6.45	7.14	10	10.5	39.0

**Ratings and Characteristic Curves $T_A=25^\circ\text{C}$ unless otherwise noted****Fig. 1 Peak Pulse Power Rating****Fig.2 Pulse Derating Curve****Fig.3 Pulse Waveform****Fig. 4- Typical Junction Capacitance**