

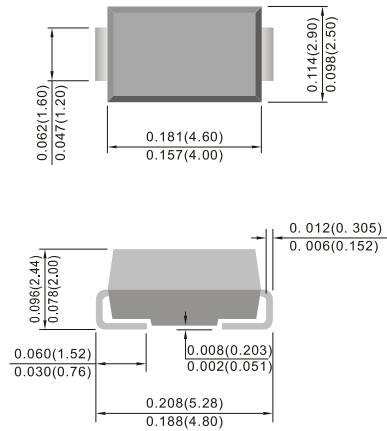
## ■ Features

- Glass passivated chip
- 400 W peak pulse power capability with a 10/1000 us waveform, repetitive rate (duty cycle):0.01 %
- Excellent clamping capability
- Low reverse leakage
- Very fast response time
- Lead and body according with RoHS standard

## ■ Mechanical Data

- Case: SMA/DO-214AC Molded plastic
- Lead: Solderable per MIL-STD-750, method 2026
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode end except Bipolar
- Mounting position: Any

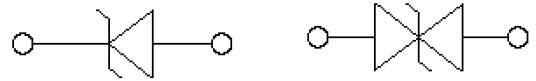
## SMA/DO-214AC



Dimensions: inch[mm]

Uni-directional

Bi-directional



## ■ Absolute Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak power dissipation with a 10/1000 us waveform <sup>(1)</sup>	P <sub>PP</sub>	400	W
Peak pulse current with a 10/1000 us waveform <sup>(1)</sup>	I <sub>PP</sub>	38.1	A
Power dissipation on infinite heatsink at T <sub>L</sub> = 75 °C	P <sub>D</sub>	1.0	W
Peak forward surge current, 8.3 ms single half sinewave unidirectional only(2)	I <sub>FSM</sub>	40	A
Maximum instantaneous forward voltage at 10 A for unidirectional only	V <sub>F</sub>	3.5/5.0	V
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

Note:

1)Non-repetitive current pulse per Fig.5 and derated above T<sub>A</sub>= 25 °C per Fig.1 ;

2)Measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum ;

## ■ Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Part Number		Device Marking Code		Reverse Stand-off Voltage	Breakdown Voltage V <sub>BR</sub> @ I <sub>T</sub>		Test Current	Max. Clamping Voltage @ I <sub>PP</sub>	Max. Peak Pulse Current	Max. Reverse Leakage @ V <sub>RWM</sub>
UNI-POLAR	BI-POLAR	UNI	BI	V <sub>RWM</sub> (V)	Min.(V)	Max.(V)	I <sub>T</sub> (mA)	V <sub>C</sub> MAX.(V)	I <sub>PP</sub> (A)	I <sub>R</sub> (uA)
SMAJ6.8A	SMAJ6.8CA	6V8A	6V8C	5.8	6.46	7.14	10	10.5	38.1	1000



■ Ratings and Characteristics Curves ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

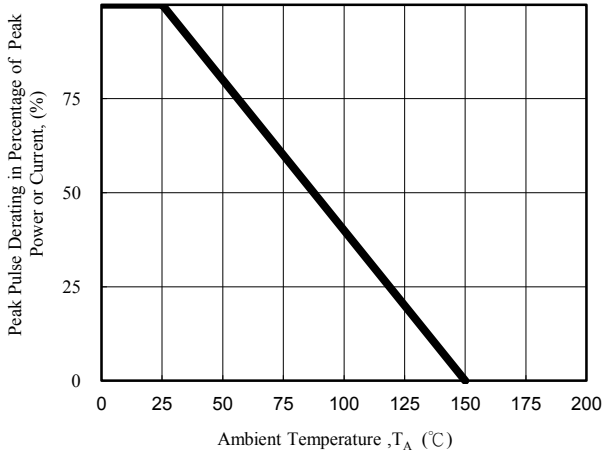


Fig. 1 - Pulse Derating Curve

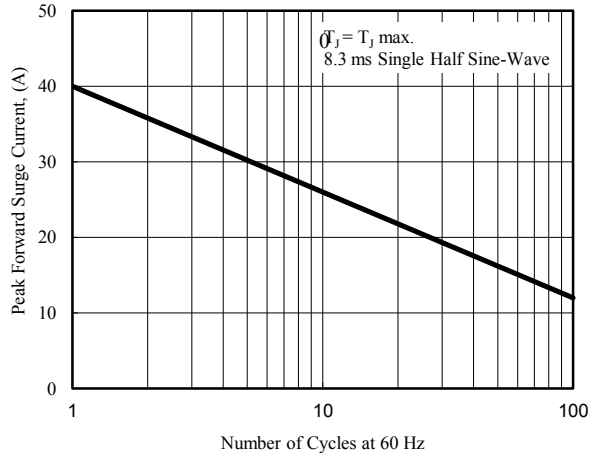


Fig. 2 - Maximum Non-Repetitive Surge Current

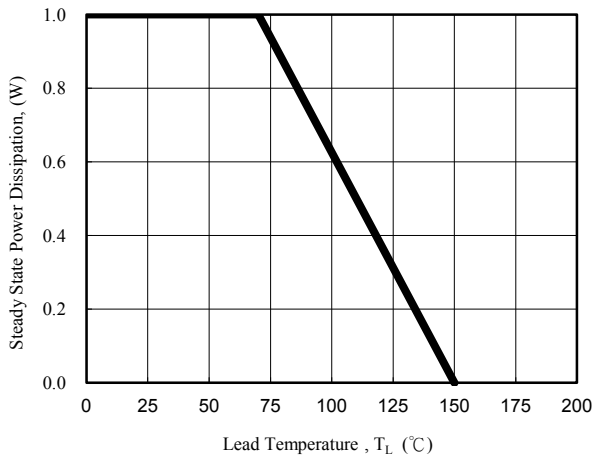


Fig. 3 - Steady State Power Derating Curve

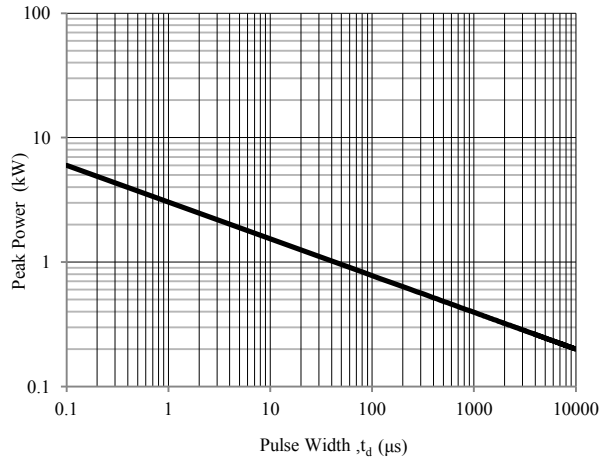


Fig. 4 - Peak Pulse Power Rating Curve

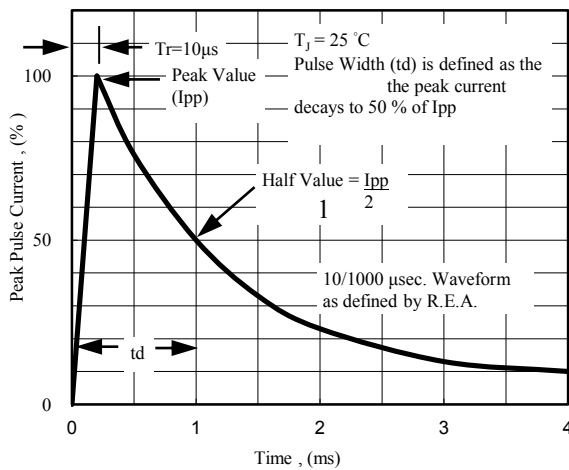


Fig. 5 - Pulse Waveform

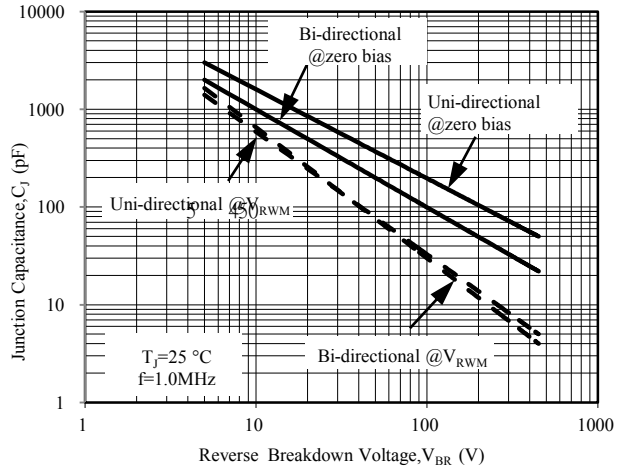


Fig. 6 - Typical Junction Capacitance

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[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)