

Surface mount transient voltage suppressor power 400 watts

Stand-Off Voltage: 509V

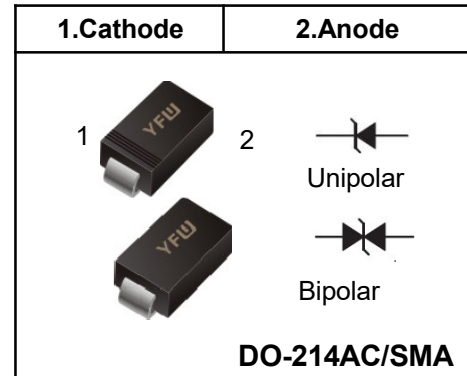
## Features

- ◆ 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: DO214AC/(SMA) 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

## Pinning



## Maximum Ratings & Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	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>	See Next Table	A
Power dissipation on infinite heatsink at TL= 75 °C	P <sub>D</sub>	3.0	W
Peak forward surge current, 8.3 ms single half sinewaveunidirectional only <sup>(2)</sup>	I <sub>FSM</sub>	40	A
Maximum instantaneous forward voltage at 25A for unidirectional only <sup>(3)</sup>	V <sub>F</sub>	3.5/6.5	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 TA= 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;
- 3)V<sub>F</sub><3.5V for devices of V<sub>BR</sub><200V and V<sub>F</sub><6.5V for devices of V<sub>BR</sub>>201V.

## Characteristics at Ta = 25°C

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 MAX</sub> (V)	I <sub>PP</sub> (A)	I <sub>R</sub> (uA)
P4SMA600A	P4SMA600CA	600A	600C	509.0	570.0	630.0	1	780.0	0.5	1

**Ratings and Characteristics Curves (TA=25°C unless otherwise noted)**

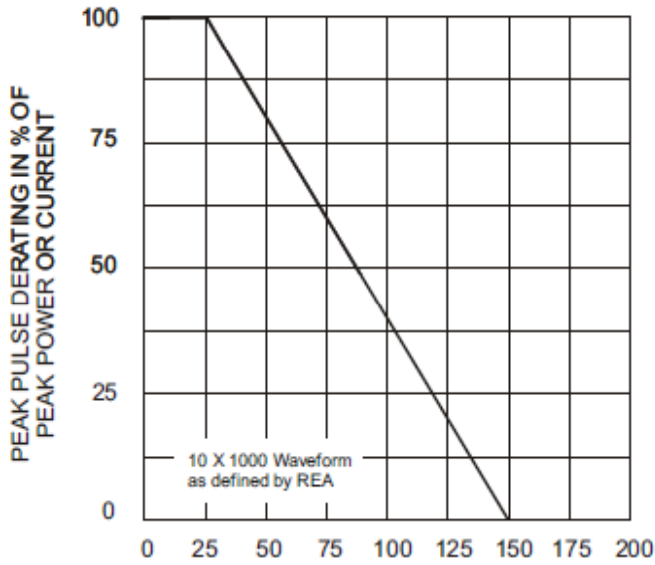


Fig. 1 - Pulse Derating Curve

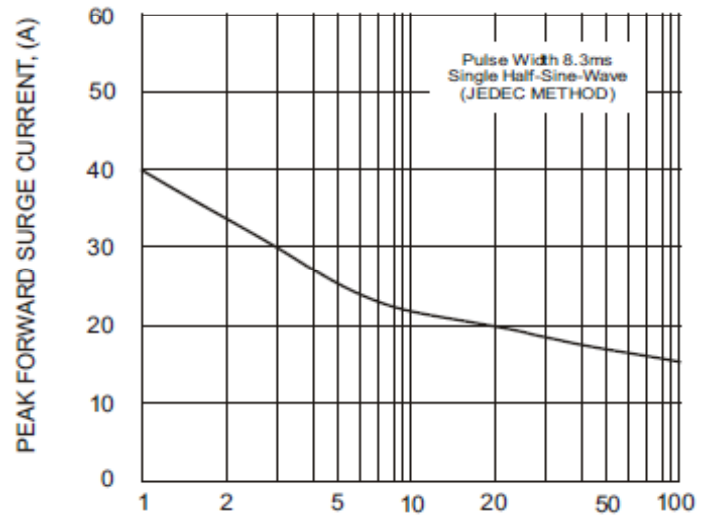


Fig. 2 - Maximum Non-Repetitive Surge Current

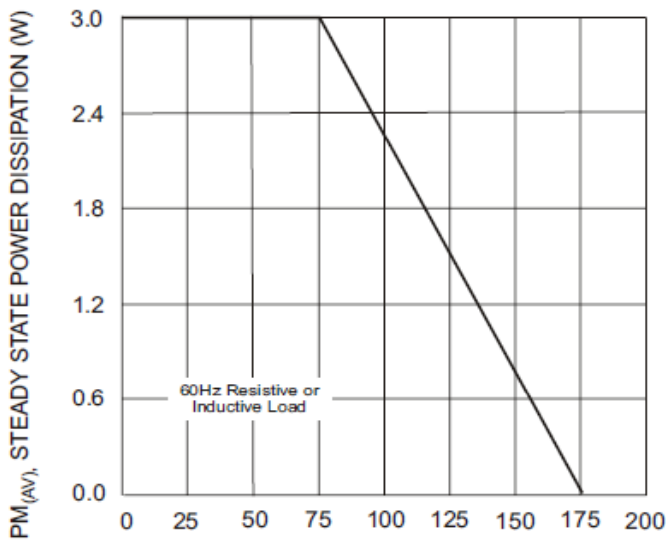


Fig. 3 - Steady State Power Derating Curve

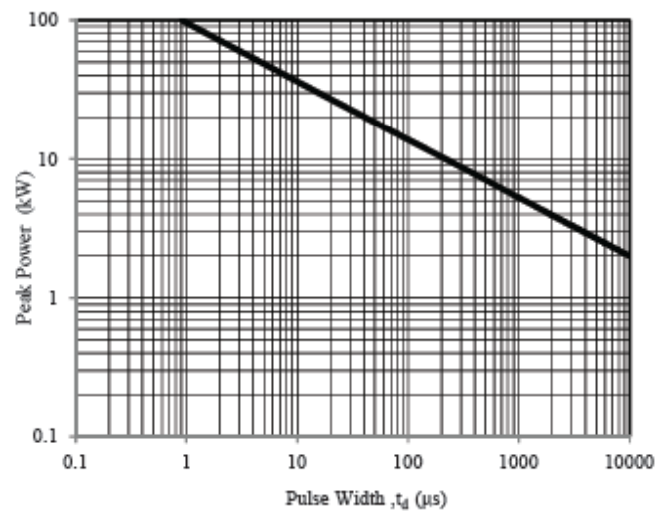


Fig. 4 - Peak Pulse Power Rating Curve

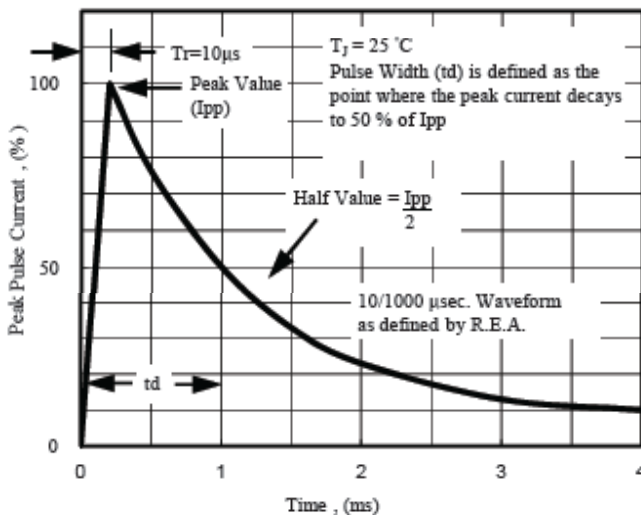


Fig. 5 - Pulse Waveform

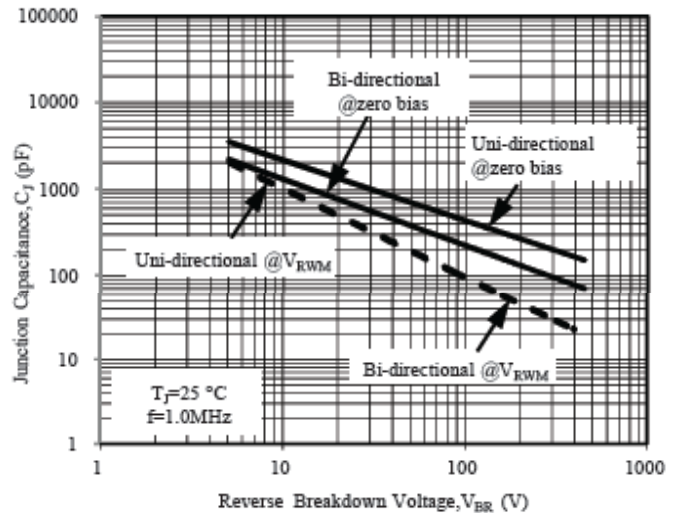
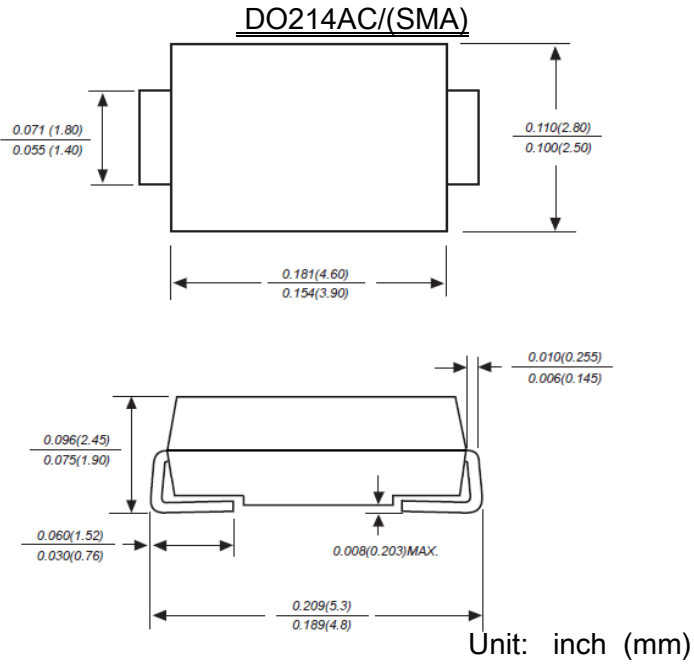


Fig. 6 - Typical Junction Capacitance

Package Outline

DO-214AC SMA



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-214AC SMA	Tape/Reel,11"reel	5000	EIA-481-1
	Tape/Reel,7"reel	2000	EIA-481-1

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)