

SMAJ3.3(C)A

400W Surface Mount Transient Voltage Suppressors

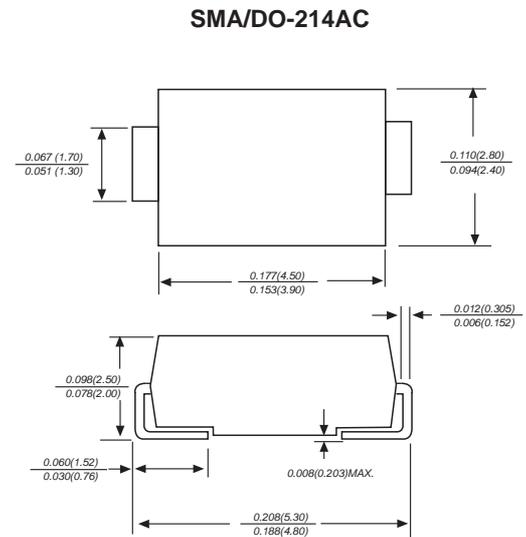


Features

- Optimized for LAN protection applications
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction chip
- 400w peak pulse power capability
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time: typically less than 1.0ps from 0v to V_{BR} min
- High temperature soldering guaranteed: 260°C/10S at terminals

Mechanical Data

- Case** : Molded plastic body
- Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity** : Polarity symbol marking on body
- Mounting Position** : Any
- Weight** : 0.0023 ounce, 0.07 grams



Dimensions in inches and (millimeters)



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Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	SYMBOLS	VALUE	UNITS
Peak pulse power dissipation with a 10/1000μs wavetorm(NOTE 1,2,4,FIG.1)	P_{PPM}	Minimum 400	Watts
Peak forward surge current (Note 3)	I_{FSM}	30.0	Amps
Peak pulse current with a 10/1000μs waveform(NOTE 1,2,5)Fig.2	I_{PPM}	See Table 1	Amps
Steady State Power Dissipation(Note 4)	$P_{M(AV)}$	1.0	Watts
Operating junction and storage temperature range	T_{STG}, T_J	-55 to + 150	°C

Notes:1.Non-repetitive current pulse,per Fig.3 and derated above $T_A=25^\circ\text{C}$ per Fig.2

- Mounted on 5.0mm copper pads to each terminal
- Measured on 8.3ms single half sine-wave.For uni-directional devices only.
- Lead temperature at $75^\circ\text{C}=T_L$
- Peak pulse power waveform is 10/1000μs

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Type		Marking		Peak Pulse Power	Stand-off Voltage	Maximum Reverse Current at VR	Breakdown Voltage at IT		Test Current	Maximum Peak Pulse Current	Maximum Clamping Voltage at Ipp
Uni-Polar	Bi-Polar	Uni-Polar	Bi-Polar	PPP (W)	V(R) (V)	IR (uA)	V (BR) (V)		IT (mA)	Ipp (A)	Vc (V)
							Min.	Max.			
SMAJ3.3A	SMAJ3.3CA	AE	WE	400	3.3	800	5.2	6.0	10	48.1	8.3

Ratings And Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

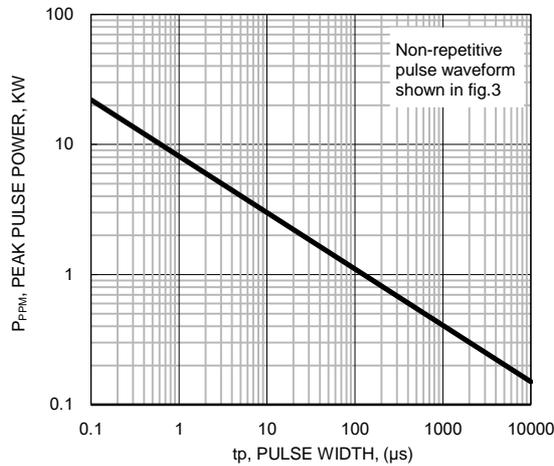


Fig.2 Pulse Derating Curve

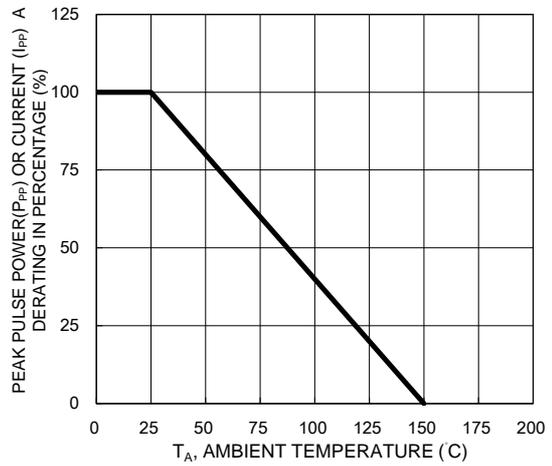


Fig.3 Clamping Power Pulse Waveform

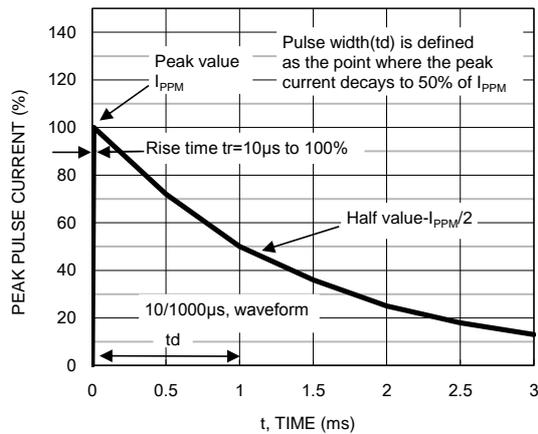


Fig.4 Maximum Non-repetitive Forward Surge Current

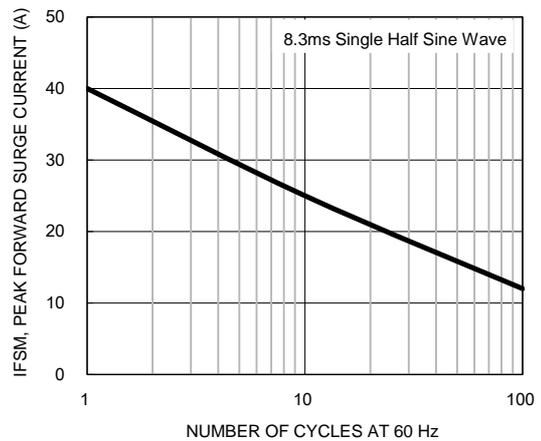


Fig.5 Typical Junction Capacitance

