

SMCJ200CA

SURFACE MOUNT BI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR

Stand-off Voltage : 200 V

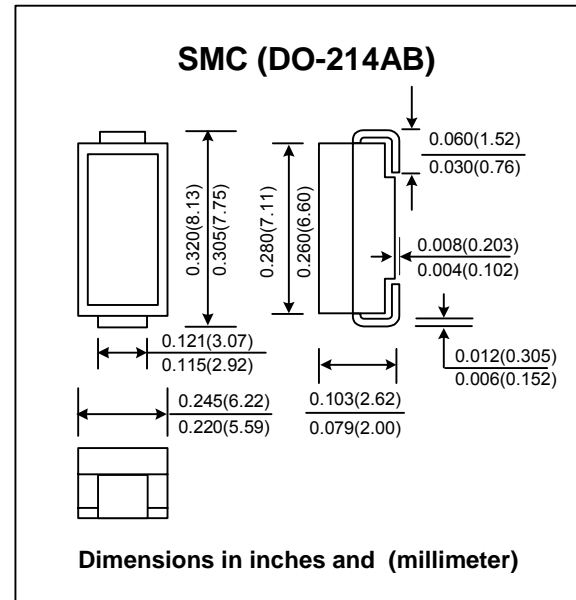
Peak Pulse Power : 1500 W

FEATURES :

- * Bidirectional transient voltage suppressor
- * 1500W peak pulse power capability with a 10/1000 μ s waveform
- * Excellent clamping capability
- * Very fast response time
- * **Pb / RoHS Free**

MECHANICAL DATA

- * Case : SMC Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Mounting position : Any
- * Weight : 0.21 gram



MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Unit
Peak Pulse Power Dissipation on 10/1000ms waveform ^{(1) (2)}	P _{PPM}	Minimum 1500	W
Peak Pulse Current on 10/1000 μ s waveform ⁽¹⁾	I _{PPM}	See Next Table	A
Typical thermal resistance , Junction to ambient	R _{ΘJA}	75	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	- 55 to + 150	°C

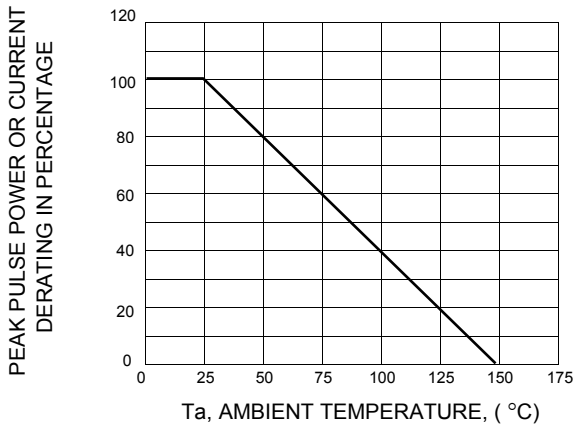
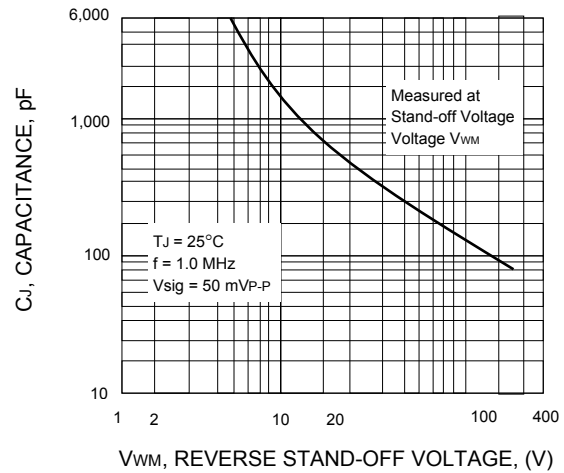
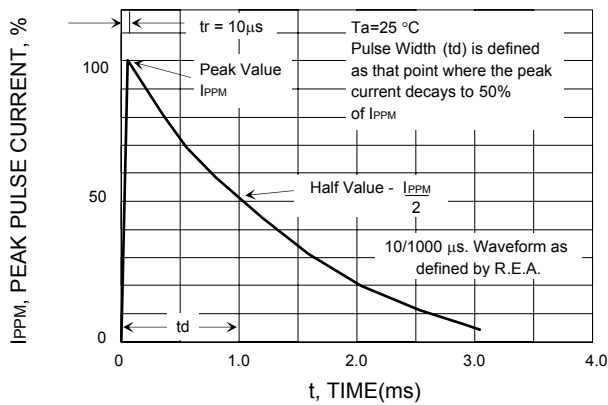
ELECTRICAL CHARACTERISTICS (Rating at 25°C ambient temperature unless otherwise specified)

Type No.	Breakdown Voltage @ I _T ⁽³⁾			Working Peak Reverse Voltage V _{WM} (V)	Maximum Reverse Leakage @ V _{WM} I _R (μ A)	Maximum Peak Pulse Surge Current I _{PPM} (A)	Maximum Clamping Voltage @ I _{PPM} V _C (V)
	V _{BR} (V)		I _T (mA)				
	Min.	Max.					
SMCJ200CA	224	247	1.0	200	5.0	4.60	324

Notes :

- (1) Non-repetitive Current pulse, per Fig. 3 and derated above Ta = 25 °C per Fig. 1
- (2) Mounted on 0.31x 0.31" (8.0 x 8.0mm) copper pads to each terminal.
- (3) Pulse test : tp \leq 50ms.

RATING AND CHARACTERISTIC CURVES (SMCJ200CA)

FIG.1 - PULSE DERATING CURVE

FIG.2 - TYPICAL JUNCTION CAPACITANCE

FIG.3 - PULSE WAVEFORM

FIG.4 - PEAK PULSE POWER RATING CURVE
