

SMAJLCE28CA~30CA

Stand-off Voltage : 28 ~ 30 V

Peak Pulse Power : 1500 W

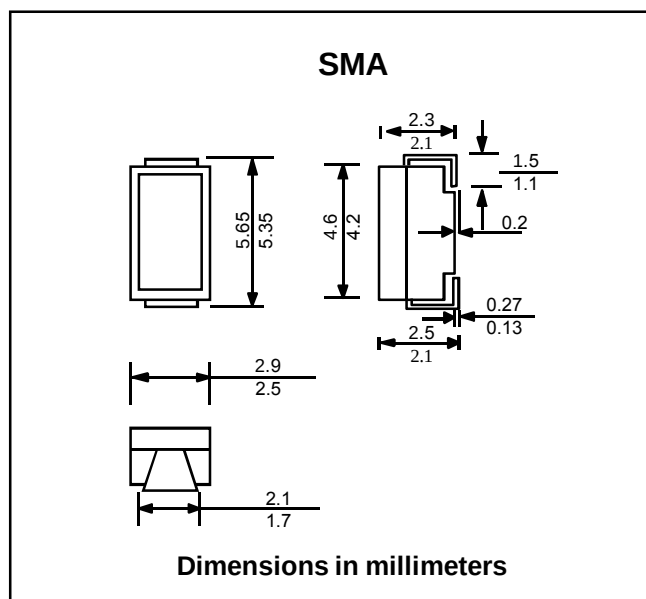
FEATURES :

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

MECHANICAL DATA

- * Case : SMB Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Mounting position : Any
- * Weight : 0.108 gram

SURFACE MOUNT LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSOR



MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Units
Peak Pulse Power Dissipation on 10/1000 μ s waveform ⁽¹⁾⁽²⁾	P _{PPM}	Minimum 1500	W
Peak Pulse Current on 10/1000 μ s waveform ⁽¹⁾	I _{PPM}	See Table	A
Typical Thermal resistance, Junction to ambient	R _{ΘJA}	100	°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 ⁽³⁾ @ I _T		Reverse Stand-off Voltage	Maximum Reverse Leakage @ V _{RWM}	Maximum Peak Pulse Surge Current	Maximum Clamping Voltage @ I _{PPM}	Maximum Junction Capacitance @ 0 Volt
	V _{BR} (V)		I _T	V _{RWM}	I _R	I _{PPM}	V _C
	Min.	Max.	(mA)	(V)	(μA)	(A)	(V)
SMAJLCE28CA	31.1	35.1	1	28	5	32	47.5
SMAJLCE30CA	33.3	37.5	1	30	5	30	50.4

Notes:

- (1) Non-repetitive Current pulse and derated above T_a = 25 °C
- (2) Mounted on 0.2 x 0.2" (5.0 x 5.0 mm) copper pads to each terminal.
- (3) Pulse test : t_p ≤ 50ms.
- (4) "SMAJ" will be omitted in marking on the diode.

RATING AND CHARACTERISTIC CURVES (SMAJLCE28CA~30CA)

FIG.1 - PULSE DERATING CURVE

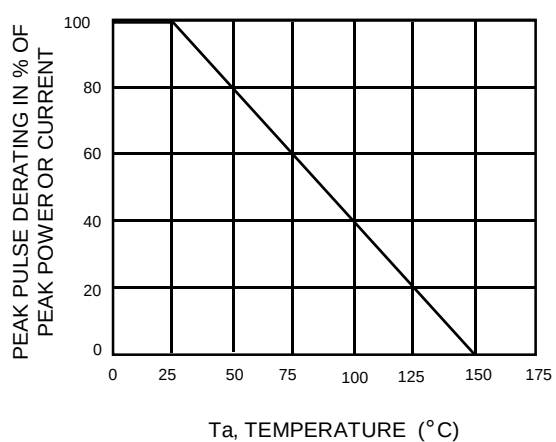


FIG.2 - PEAK PULSE POWER RATING CURVE

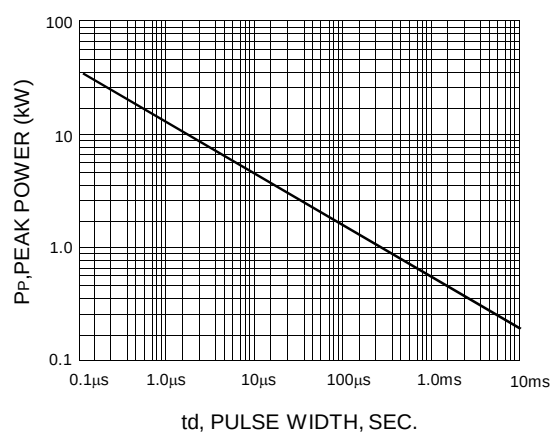


FIG.3 - PULSE WAVEFORM

