

## STB-LC-S514S

**Stand-off Voltage : 14 V**  
**Peak Pulse Power : 600 W**

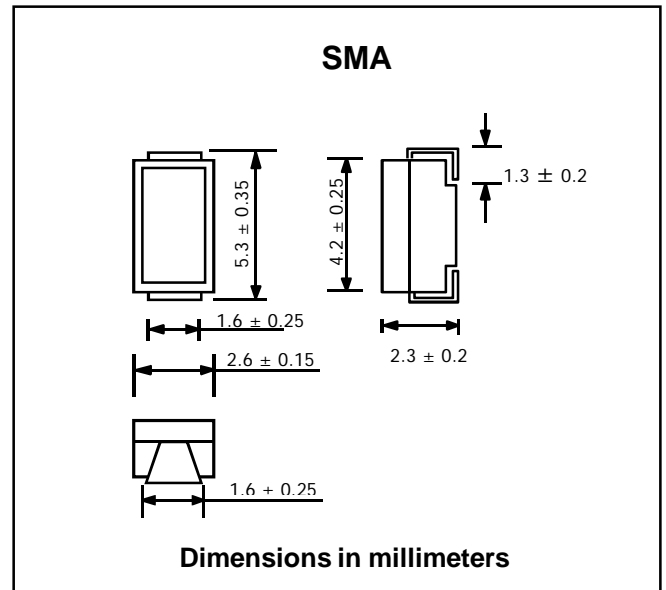
### FEATURES :

- \* Bi-directional transient voltage suppressor
- \* 600W surge capability at 8/20 $\mu$ s
- \* Excellent clamping capability
- \* Low junction capacitance
- \* Fast response time : typically less than 1.0 ps from 0 volt to  $V_{BR(min.)}$
- \* Pb / RoHS Free

### MECHANICAL DATA

- \* Case : SMA Molded plastic
- \* Epoxy : UL94V-0 rate flame retardant
- \* Lead : Lead Formed for Surface Mount
- \* Mounting position : Any
- \* Weight : 0.064 grams

## SURFACE MOUNT LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSOR



### MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Units
Peak Power Dissipation at $T_a = 25\text{ }^\circ\text{C}$ , 8/20 $\mu$ s (Note1)	$P_{PK}$	Minimum 600	W
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	- 55 to + 175	$^\circ\text{C}$

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

Type No.	Breakdown Voltage <sup>(3)</sup> @ $I_T$		Reverse Stand-off Voltage $V_{RWM}$ (V)	Maximum Reverse Leakage @ $V_{RWM}$ ( $\mu$ A)	Maximum Peak Pulse Surge Current $I_{PPM}$ (A)	Maximum Clamping Voltage @ $I_{PPM}$ (V)	Maximum Junction Capacitance @ 0 Volt (pF)	
	$V_{BR}$ (V) Min.	$V_{BR}$ (V) Max.						$I_T$ (mA)
	STB-LC-S514S	15.6	17.2	1.0	14	1.0	24	25

#### Notes:

- (1) Non-repetitive Current pulse, per Fig. 2 and derated above  $T_a = 25\text{ }^\circ\text{C}$  per Fig. 1
- (2)  $V_{BR}$  measured after  $I_T$  applied for 300  $\mu$ s.,  $I_T$  = square wave pulse or equivalent.