SMC TRANSIENT VOLTAGE SUPPRESSOR

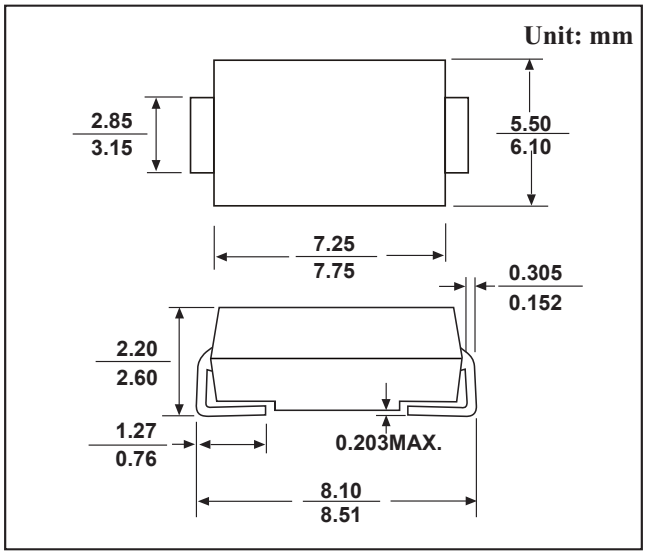
BREAKDOWN VOLTAGE: 6.8 --- 440 V PEAK PULSE POWER: 5000 W

FEATURES

- ●Glass passivated chip
- ●Low leakage
- ●Uni and Bidirectional unit
- ●Excellent clamping capability
- ●Very fast response time
- ●RoHS compliant

MECHANICAL DATA

- ●Case style:SMC plastic molded
- ●Polarity:color band denotes positive end(cathode) except for bidirectional
- ●Mounting position: any



DEVICES FOR BIDIRECTIONAL APPLICATIONS

For bidirectional use C or CA suffix for types 1.5KE6.8 thru 1.5KE540(e.g. 1.5KE6.8C,1.5KE440CA)

Electrical characteristics apply in both directions.

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Value	Units
Peak Power Dissipation (Note 1.) @T_L = 25°C, Pulse Width = 1 ms	P_{PK}	5000	W
Forward Surge Current (Note 2.) @T_A = 25°C	I_{FSM}	200	A
Power Dissipation On Infinite Heatsink, @T_A = 50°C	$P_{M(AV)}$	5.0	W
Thermal Resistance Junction To Ambient Air (Note 3.)	$R_{\theta JA}$	75	°C/W
Thermal Resistance Junction To Leads	$R_{\theta JL}$	15	°C/W
Storage Temperature Range	T_{STG}	-55 to 150	°C
Operating Junction Temperature Range	T_J	-55 to 150	°C

1）10 X 1000 us, non–repetitive

2）1/2 sine wave (or equivalent square wave), PW = 8.3 ms, duty cycle = 4 pulses per minute maximum

3）Mounted on minimum recommended pad layout