



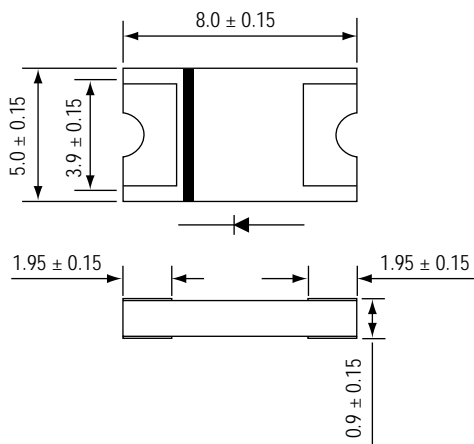
4.5SMCC16AH

High power density 4500W TVS

Reverse Voltage - 16 Volts

Peak Pulse Power-4500 Watts

A3220



*Dimensions in millimeters

CoolTc™

FEATURES

- * Halogen-free type
- * Compliance to RoHS product
- * Glass passivated chip
- * 4500W peak pulse power capability with a 10/1000 μ s waveform, repetitive rate (duty cycle) : 0.01%
- * Low leakage
- * Lowest profile 1mm
- * Low leakage
- * Excellent clamping capability
- * Very fast response time

MECHANICAL DATA

Case : A3220

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Cathode band, Laser marking

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak power dissipation with a 10/1000 μ s waveform	P _{PPM}	4500	Watts
Peak pulse current with a 10/1000 μ s waveform	I _{PPM}	173.1	Amps
Power dissipation on infinite heatsink at T _L = 25	P _D	6.5	Watts
Peak forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	320	Amps
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150	

ELECTRICAL CHARACTERISTICS (T_A = 25 unless otherwise noted)

PART NUMBER	Marking Code	Working Peak Reverse Voltage V _{RWM} (V)	Breakdown Voltage V _{BR} @I _T			Maximum Clamping Voltage V _C (V) @ I _{PP}	Maximum Reverse Surge Current I _{PP} (A) @ 10 / 1000 μ s sinewave	Maximum Reverse Leakage I _R (μ A) @V _{RWM}
			Min. (V)	Max. (V)	I _T (mA)			
4.5SMCC16AH	4.5CC 16A.	16	17.8	19.7	1	26.0	173.1	2

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- PULSE DERATING CURVE

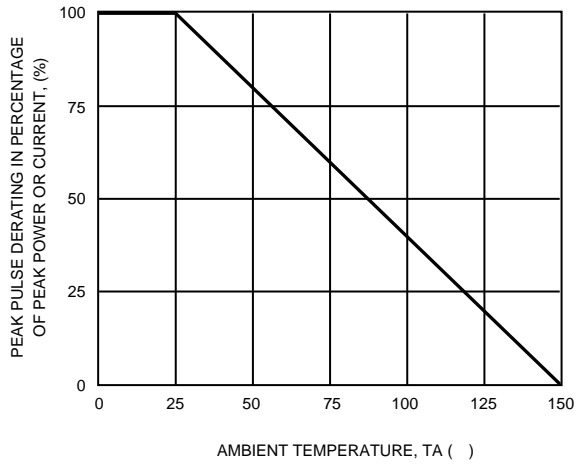


FIG. 2- STEADY STATE POWER DERATING CURVE

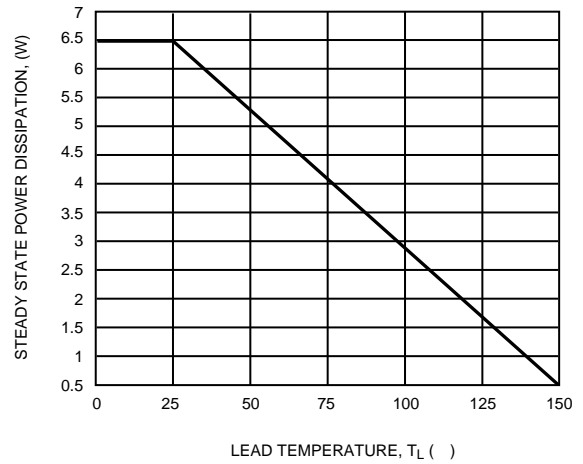


FIG. 3 - PEAK PULSE POWER RATING CURVE

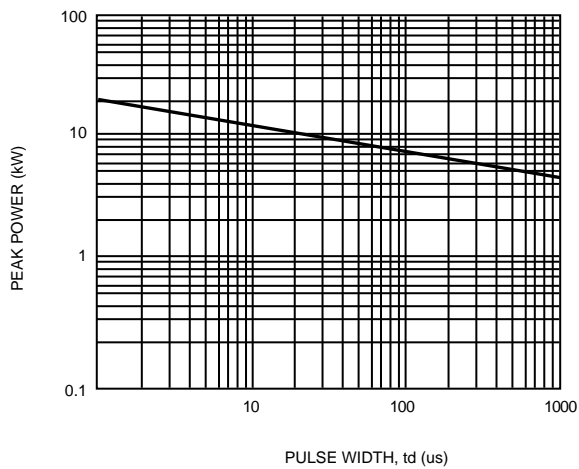


FIG. 4 - PULSE WAVEFORM

