



**Low Capacitance TRANSZORB
Transient Voltage Suppressors**

FEATURES

- * Plastic package has underwriters laboratory
- * Glass passivated chip construction
- * 500 watt peak pulse power capability with a 10/1000us waveform, repetition rate (duty cycle):0.01%
- * Excellent clamping capability
- * Low incremental surge resistance
- * Very fast response time
- * Ideal for data line applications
- * High temperature soldering guaranteed:
265 °C /10 seconds, 0.375"(9.5mm) lead length, 5lbs.(2.3kg) tension

Mechanical Data

Case: JEDEC DO-204AC molded plastic body over passivated junction

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

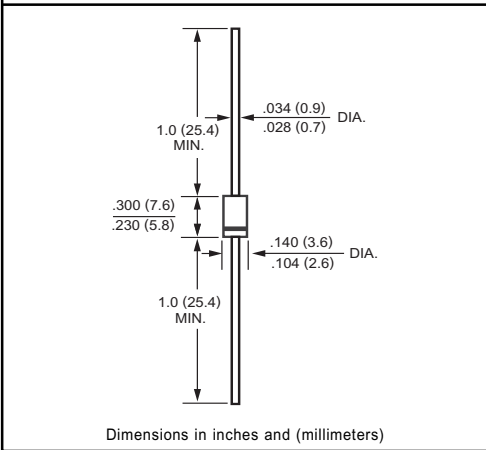
Polarity: Color band denotes TVS cathode

Mounting position: Any

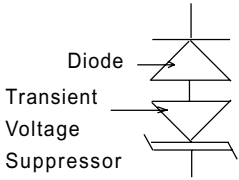
Weight: 0.015 oz., 0.4g



DO-15



Schematic



Maximum Ratings and Thermal Characteristics (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	LIMIT	UNITS
Peak pulse power dissipation with a 10/1000uS waveform (note 1)	PPPM	Minimum 500	Watts
Steady state power dissipation at TL = 75°C lead lengths, .375" (9.5 mm) (NOTES 2)	PM(AV)	5.0	Watts
Peak pulse forward surge current with a 10/1000us waveform(fig.3)	IFSM	100	Amps
Operating and storage temperature range	TJ, TSTG	-55 to + 150	°C

NOTES : 1. Non-repetitive current pulse, per Fig.3 and derated above TA= 25°C per Fig.2
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTIC CURVES

Fig. 1 - Peak Pulse Power Rating Curve

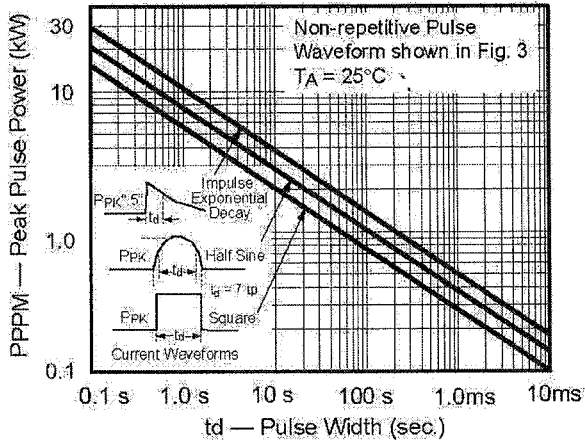


Fig. 2 - Power Derating Curve

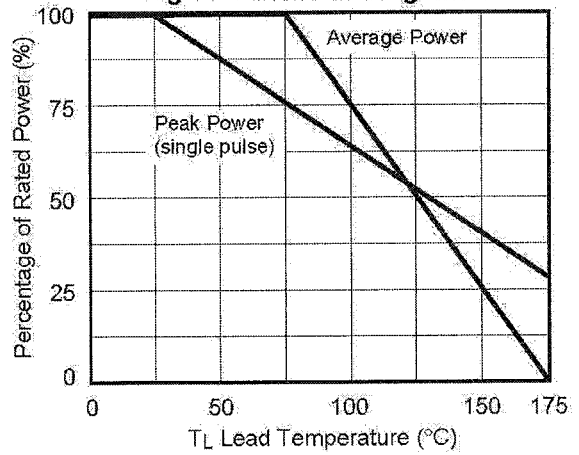


Fig. 3 - Pulse Waveform

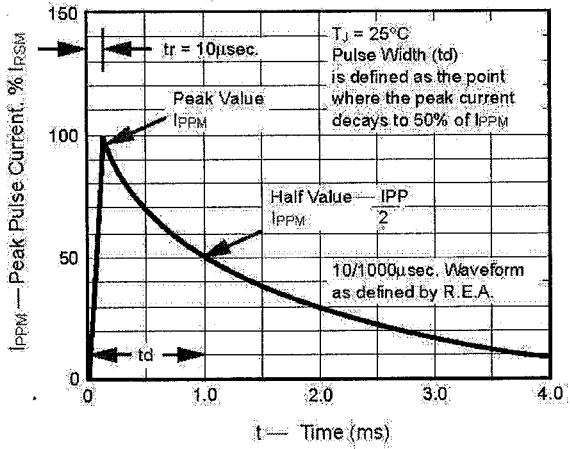
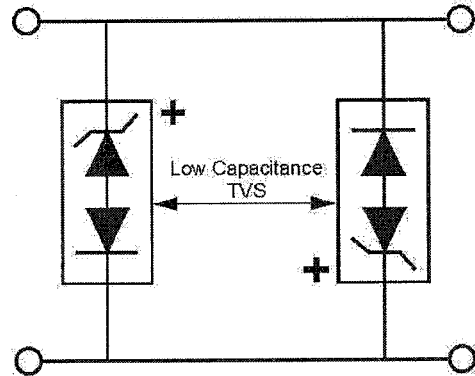


Fig. 4 - AC Line Protection Application



Application Note: Device must be used with two units in parallel, opposite in polarity as shown in circuit for AC signal line protection.

ELECTRICAL CHARACTERISTICS

House No.	Reverse Stand off Voltage VWM * (Volts)	Minimum Breakdown voltage at $I_T=1.0\text{mA}$ V(BR) (V)	Maximum Reverse Leakage at VWM ID (uA)	Maximum Clamping Voltage at IPPM=5.0uA VC (Volts)	Maximum Peak Pulse Current IPPM (Amps)	Maximum Junction Capacitance at 0 Volts (PF)	Working Inverse Blocking Voltage VWB (V)	Inverse Blocking Leakage Current VWB IB(mA)	Peak Inverse Blocking Voltage VPIB (V)
SACxxx	5.0	7.60	300	10.0	44	50	75	1.0	100

* Non -repetitive current pulse,per Fig.3 and derated above $T_A=25$ degree per Fig.2