



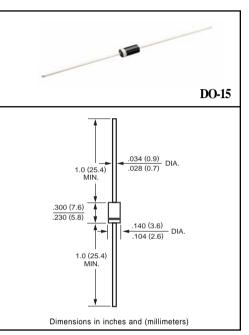
# Low Capacitance TRANSZORB Transient Voltage Suppressors

### FEATURES

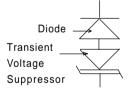
- \* Plastic package has underwriters laboratory
- \* Glass passivated chip construction
- \* 500 watt peak pulse power capability with a 10/1000us waveform,repetition rate (duty cycle):0.01%
- \* Excellent clamping capability
- \* Low incremental surge resistance
- \* Very fast response time
- \* Ideal 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



Schematic



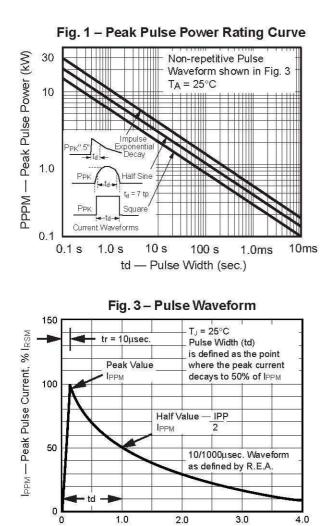
Maximum Ratings and	Thermal Characteristics	(At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	LIMIT	UNITS
Peak pulse power dissipation with a 10/1000uS waveform (note 1)	Рррм	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 (SAC5.0)



t — Time (ms)

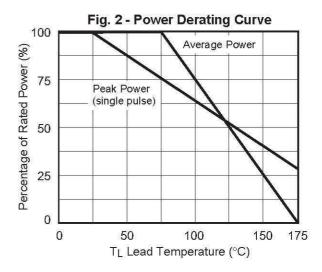
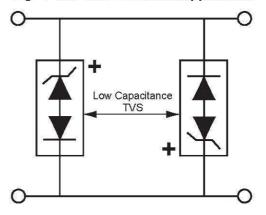


Fig. 4 - AC Line Protection Application



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

Rectron House No.	Reverse Stand off Voltage VWM * (Volts)	Minimum Breakdown voltage at IT=1.0mA 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 IıB(mA)	Peak Inverse Blocking Voltage VPIB (V)
SAC5.0	5.0	7.60	300	10.0	44	50	75	1.0	100

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