Suppression

Order code	Manufacturer code	Description
26-3620	n/a	5V TRANSZORB SA5.OA
26-3625	n/a	12V TRANSZORB SA12A
26-3630	n/a	15V TRANSZORB SA15A
26-3635	n/a	24V TRANSZORB SA24A

Sales: 01206 751166 **Technical: 01206 835555** **Fax: 01206 7551188**
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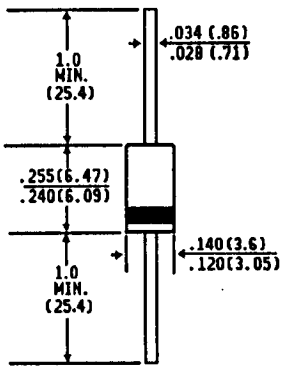
GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR

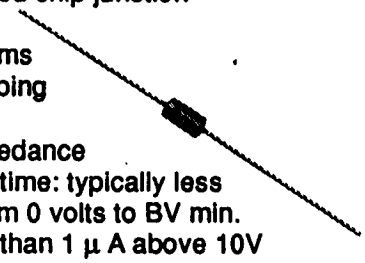
VOLTAGE- 5.0 to 170 Volts

500 Watt Peak Power 3.0 Watt Steady State

FEATURES



Dimensions in inches and (millimeters)



- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated chip junction
- 500W surge capability at 1 ms
- Excellent clamping capability
- Low zener impedance
- Fast response time: typically less than 1.0 ps from 0 volts to BV min.
- Typical I_R less than 1 μA above 10V
- High temperature soldering guaranteed: 300°C/10 seconds/.375", (9.5mm) lead length/5lbs., (2.3 kg) tension

MECHANICAL DATA

Case: Molded plastic over glass passivated chip junction
Terminals: Axial leads, solderable per MIL-STD-202, Method 208
Polarity: Color band denoted cathode except Bipolar
Mounting Position: Any
Weight: 0.015 ounce, .4 gram

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

RATING	*SYMBOL*	*VALUE*	*UNITS*
Peak Power Dissipation at T_A=25°C, Tp=1ms (NOTE 1)	Ppk	Minimum 500	Watts
Steady State Power Dissipation at T_L=75°C Lead Lengths .375", (9.5mm) (NOTE 2)	PD	3.0	Watts
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) (NOTE 3)	I_{FSM}	70	Amps
Operating and Storage Temperature Range	T_J,T_{STG}	-65 to +175	°C

NOTES:
1. Non-repetitive current pulse, per Fig. 3 and derated above T_A= 25°C per Fig. 2.
2. Mounted on Copper Leaf area of 1.57 in^2 (40mm^2).
3. 8.3ms single half sine-wave, Duty Cycle = 4 pulses per minute maximum.

FIGURE 1 - PULSE RATING CURVE

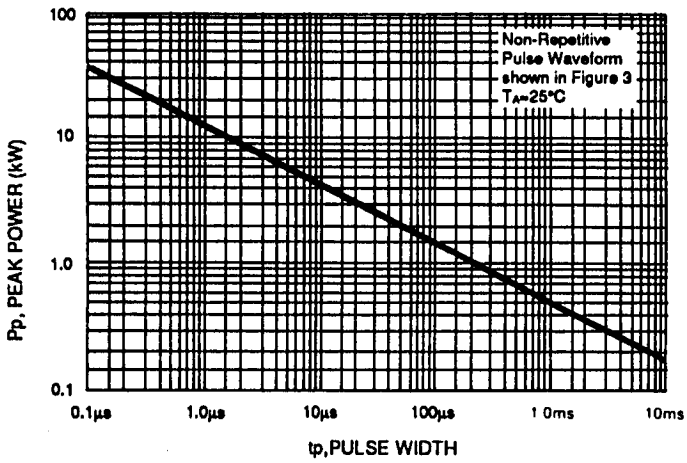


FIGURE 2 — PULSE DERATING CURVE

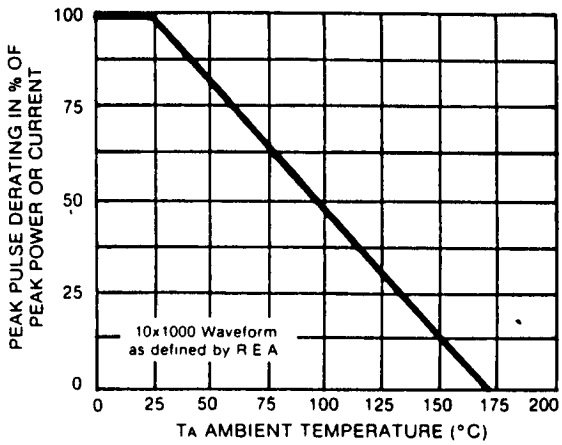


FIGURE 3 — PULSE WAVEFORM

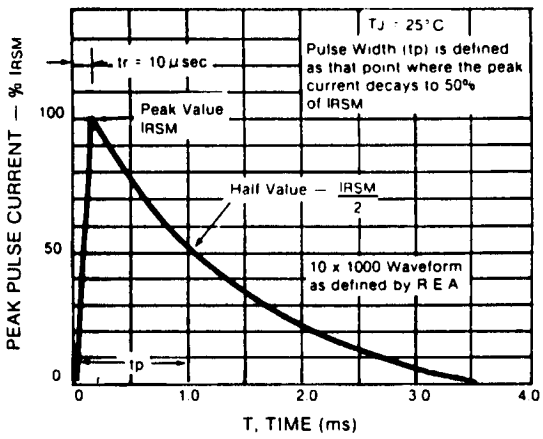


FIGURE 4 — TYPICAL JUNCTION CAPACITANCE

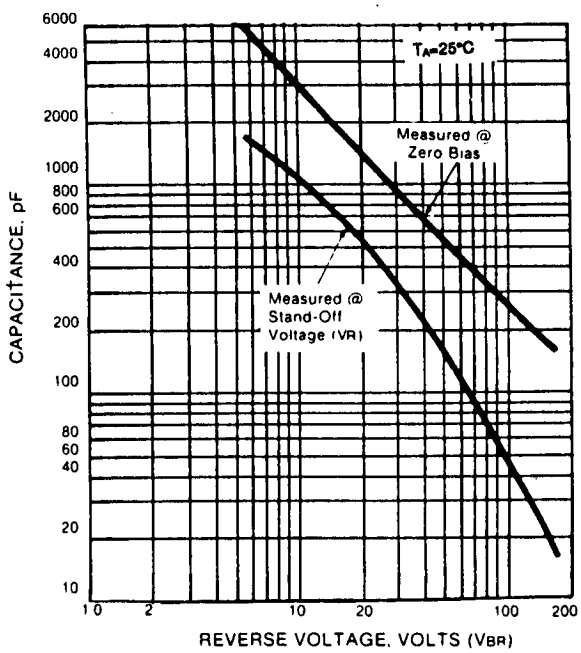


FIGURE 5 — STEADY STATE POWER DERATING

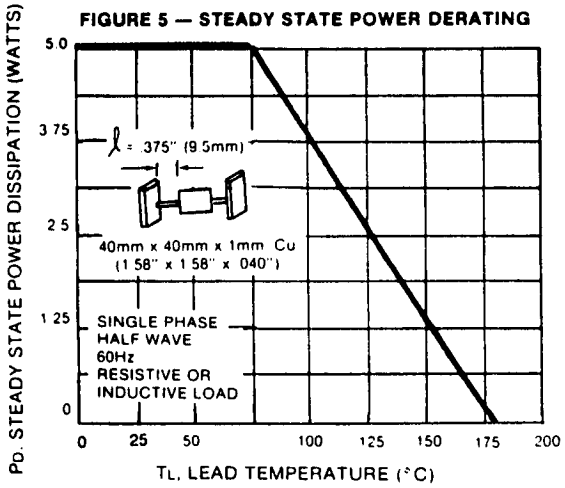
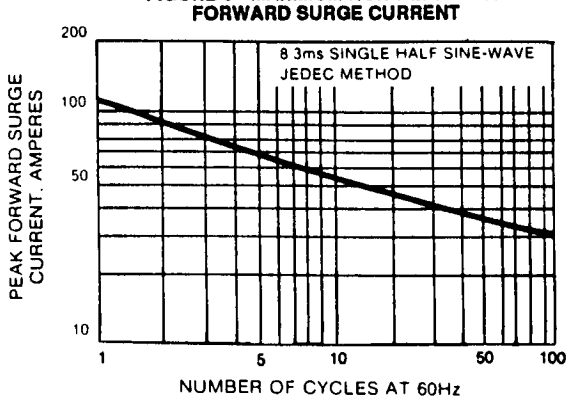


FIGURE 6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



ELECTRICAL CHARACTERISTICS (T_A = 25°C UNLESS OTHERWISE NOTED)

DEVICE	BREAKDOWN VOLTAGE V_{BR} Volts (NOTE1) MIN.	MAX.	@IT (mA)	WORKING PEAK REVERSE VOLTAGE V_{RWM} (VOLTS)	MAX. REVERSE LEAKAGE at V_{RWM} I_R (A)	MAX. REVERSE CURRENT I_{RSM} (NOTE 2) (Amps)	MAX. REVERSE VOLTAGE at I_{RSM} (CLAMPING VOLT.) V_{RSM} (VOLTS)	MAX. TEMP. VOLTAGE VARIATION V_{BR} mV/°C
SA5.0A	6.40	7.00	10	5.0	600	54.3	9.20	5.0
SA12A	13.3	14.7	1.0	12.0	1.0	25.1	19.9	12.0
SA15A	16.7	18.5	1.0	15.0	1.0	20.6	24.4	16.0
SA24A	26.7	29.5	1.0	24.0	1.0	12.8	38.9	28.0

NOTES:-

1. V_{BR} measured after I_T applied for 300ms. I_T = Square Wave Pulse or equivalent.
2. Surge Current waveform per Figure 3 and Derate per Figure 2.
3. V_F = 3.5 Volts max I_F = 35A for all types on 1/2 square or equivalent Sine Wave. PW = 8.3ms. Duty Cycle = 4 Pulse per Minute maximum.
4. For bipolar types with V_R 10 Volts and under, the I_R limit is doubled.