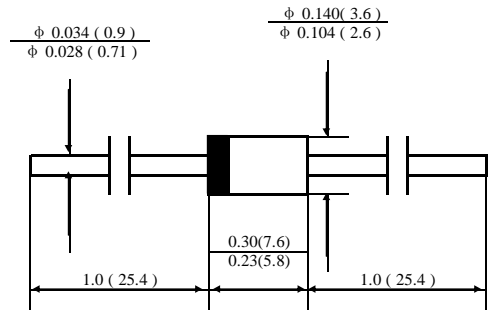


2.0AMP PLASTIC SILICON RECTIFIERS

VOLTAGE RANGE: 100 VOLTS

DO-15



inch ( mm )

FEATURES

- . Fast switching
- . Diffused junction
- . Low Leakage
- . Low forward voltage drop
- . High current capability
- . Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- . The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- . Case: JEDEC DO-15, molded plastic
- . Terminals: Axial leads. Solderable per MIL - STD - 202, Method 208
- . Polarity: Color band denotes cathode
- . Weight: 0.072 ounce, 2.05 grams
- . Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half wave 60HZ, resistive or inductive load. For capacitive load current derate by 20%

|                                                                                                | SYMBOL          | SR 2100     | UNITS        |
|------------------------------------------------------------------------------------------------|-----------------|-------------|--------------|
| Maximum Recurrent Peak Reverse Voltage                                                         | $V_{RRM}$       | 100         | V            |
| Maximum RMS Voltage                                                                            | $V_{RMS}$       | 70          | V            |
| Maximum DC Blocking Voltage                                                                    | $V_{DC}$        | 100         | V            |
| Maximum Average Forward Rectified Current<br>9.5mm Lead Length, $T_A = 55^\circ C$             | $I_{(AV)}$      | 2.0         | A            |
| Peak Forward Surge Current<br>8.3ms Single half-sine-wave superimposed<br>on rated load        | $I_{FSM}$       | 60.0        | A            |
| Maximum Forward Voltage at 0.2A DC                                                             | $V_F$           | 0.85        | V            |
| Maximum Reverse Current $T_A = 25^\circ C$<br>at Rated DC Blocking Voltage $T_A = 100^\circ C$ | $I_R$           | 0.5<br>15.0 | $\mu A$      |
| Typical Thermal Resistance ( Note 2 )                                                          | $R_{\theta JA}$ | 20          | $^\circ C/W$ |
| Typical Junction Capacitance ( Note 1 )                                                        | $C_j$           | 150         | PF           |
| Operating Junction Temperature Range                                                           | $T_j$           | - 55 to 125 | $^\circ C$   |
| Storage Temperature Range                                                                      | $T_{STG}$       | - 55 to 150 | $^\circ C$   |

- NOTE:**
1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC
  2. Thermal resistance junction to Ambient at 9.5mm lead length, P.C.B. mounted

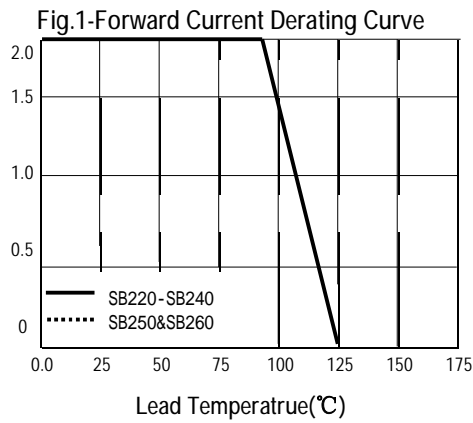


FIG. 3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

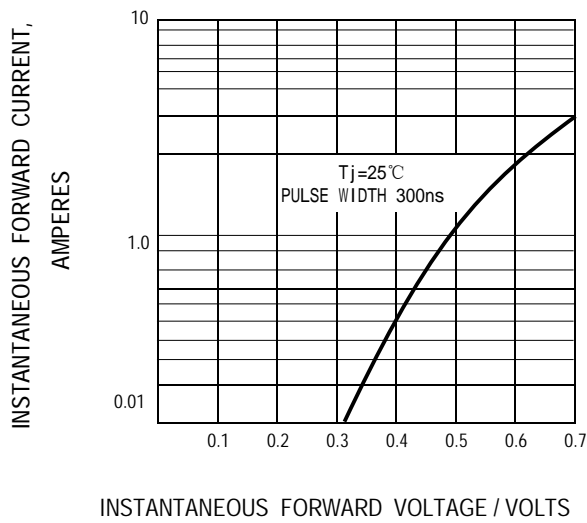


FIG. 5 -- Typical Junction Capacitance

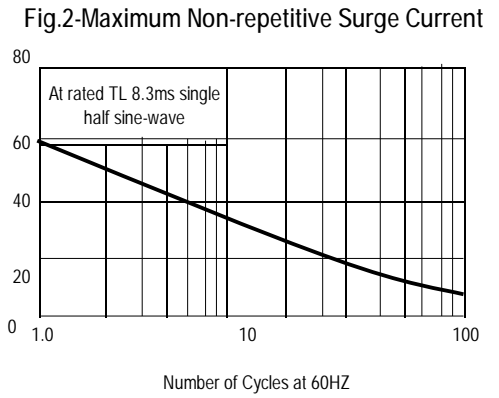
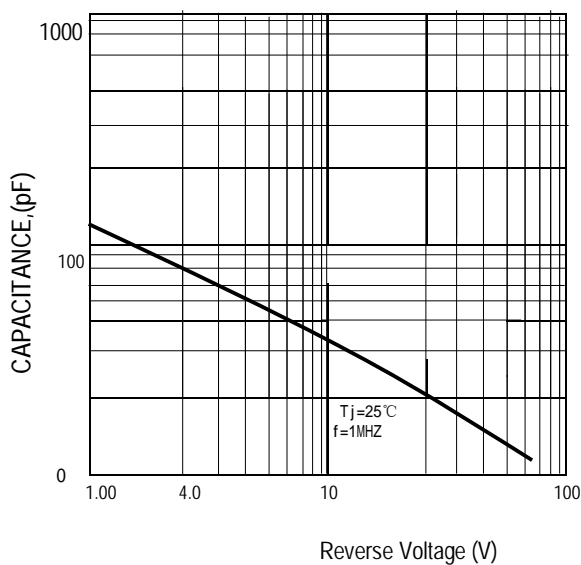


FIG. 4 -- TYPICAL REVERSE CHARACTERISTICS

