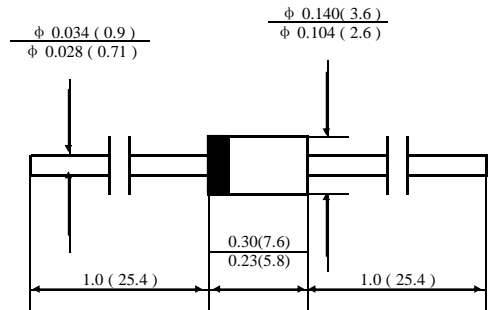


2.0AMP PLASTIC SILICON RECTIFIERS

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 9.5mm Lead Length, $T_A = 55^\circ C$	$I_{(AV)}$	2.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load	$I_{FSM}$	60.0	A
Maximum Forward Voltage at 0.2A DC	$V_F$	0.85	V
Maximum Reverse Current $T_A = 25^\circ C$ at Rated DC Blocking Voltage $T_A = 100^\circ C$	$I_R$	0.5 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.1-Forward Current Derating Curve

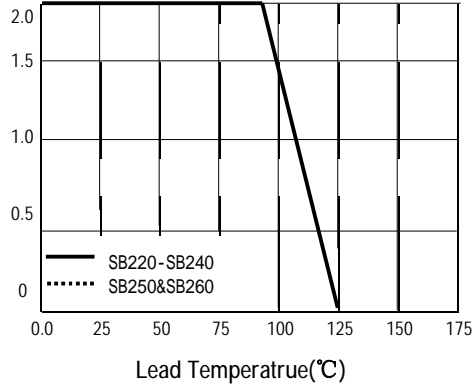


FIG. 3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

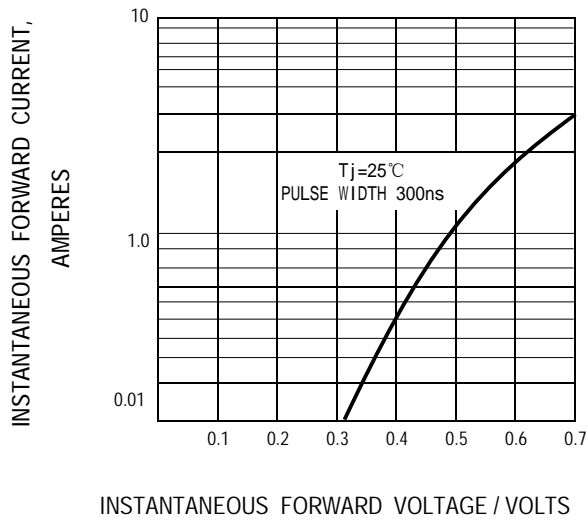


FIG. 5 -- Typical Junction Capacitance

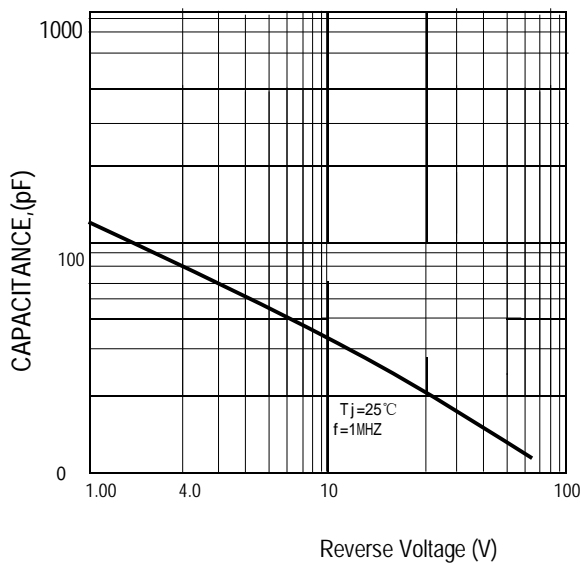


Fig.2-Maximum Non-repetitive Surge Current

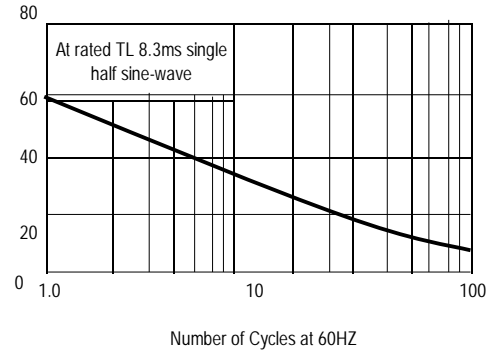
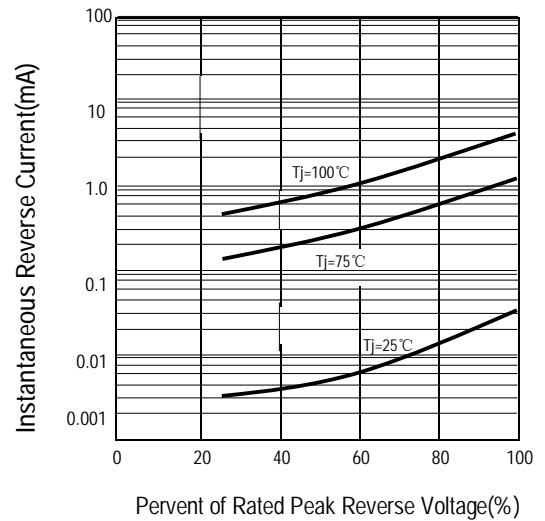


FIG. 4 -- TYPICAL REVERSE CHARACTERISTICS



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