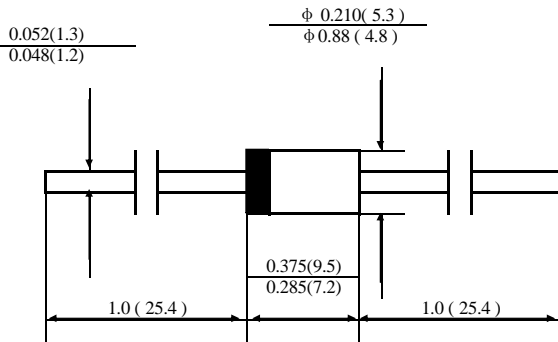


## SR320 THRU SR360

3.0AMP PLASTIC SILICON RECTIFIERS

VOLTAGE RANGE: 20 to 60 VOLTS

DO-27



inch ( mm )

### FEATURES

- . Low cost
- . 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-27. molded plastic
- . Terminals: Axial leads. Solderable per MIL - STD - 202. Method 208
- . Polarity: Color band denotes cathode
- . Weight: 0.041 ounce. 1.15 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. derate current by 20%

	SYMBOL	SR320	SR330	SR340	SR350	SR360	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. $T_A = 75^\circ C$	$I_{(AV)}$	3.0					A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load	$I_{FSM}$	100.0					A
Maximum Forward Voltage at 1.5A DC	$V_F$	0.48			0.54		V
Maximum Reverse Current $T_j = 25^\circ C$ at Rated DC Blocking Voltage $T_j = 100^\circ C$	$I_R$	0.5 20.0					mA
Typical Junction Capacitance (Note 1)	$C_j$	250					pF
Typical Thermal Resistance (Note 2)	$R_{QJL}$	20			10		°C/W
Operating Junction Temperature Range	$T_j$	— 55 to 125					°C
Storage Temperature Range	$T_{STG}$	— 55 to 150					°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

# SR320 THRU SR360

Fig.1-Forward Current Derating Curve

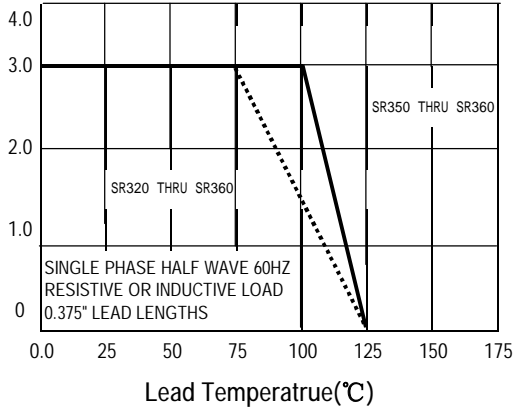


Fig.2-Maximum Non-repetitive Surge Current

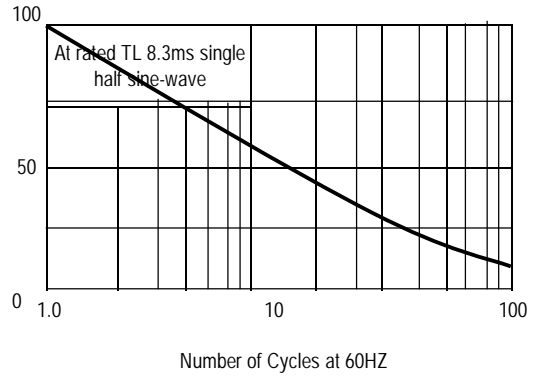


FIG. 3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

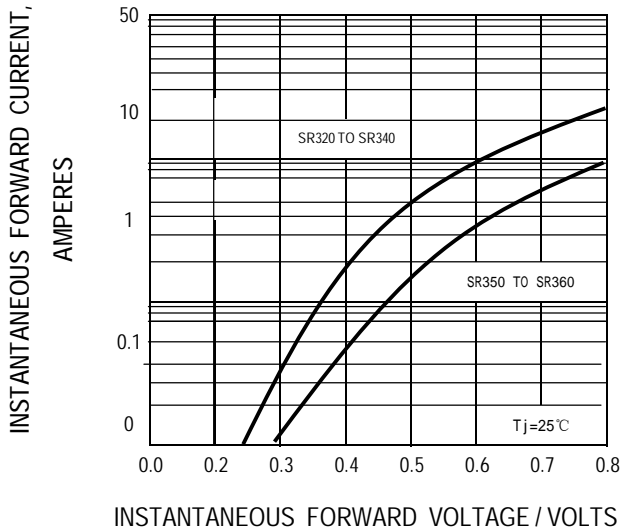


FIG. 4 -- TYPICAL REVERSE CHARACTERISTICS

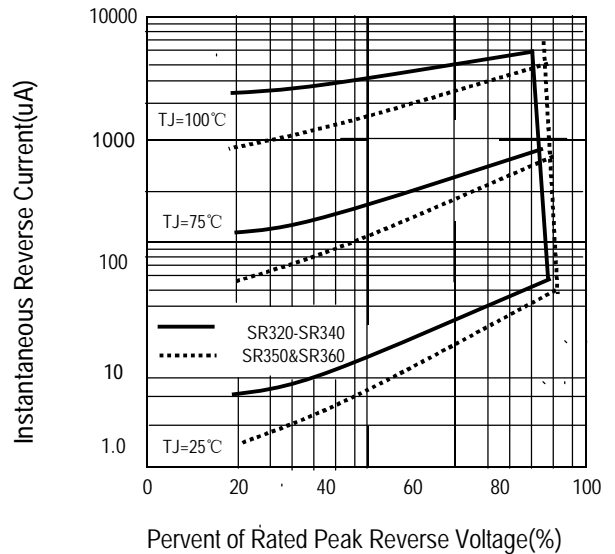


FIG. 5 -- Typical Junction Capacitance

