Suntan_® Su_®

SR220 THRU SR2100

SCHOTTKY BARRIER RECTIFIER

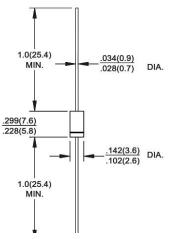
REVERSE VOLTAGE 20 to 100 Volts FORWARD CURRENT 2.0 Ampere

FEATURES

- ◆Low forward voltage drop
- ◆Low leakage current
- ◆ High forward surge capability
- ♦ High reliability

Mechanical Data

- ♦Case: Mold plastic
- ◆Epoxy: UL94V-0 rate flame retardant
- ◆Polarity: Indicated by cathode band
- ◆Lead: MIL-STD-202E, Method 208 guaranteed
- ♦ Mounting position: Any



DO-15

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

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	SYMBOL	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current	$I_{(\mathrm{AV})}$	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	Ifsm	50							Amps
Maximum Instantaneous Forward Voltage at 2.0A	$V_{\rm F}$	0.55			0.70		0.85		Volts
$\begin{array}{ll} \mbox{Maximum DC Reverse Current} & T_A = 25 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	IR	1.0 20							mA
Typical Junction Capacitance (NOTE 1)	C _J	110							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	50							°C/W
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	Tstg	-55 to +150							°C

Note: 2.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

3. Thermal Resistance From Junction to Ambient at. 375" (9.5mm) lead length, P.C. board mounted.

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RATING AND CHARACTERISTIC CURVES SR220 THRU SR2100

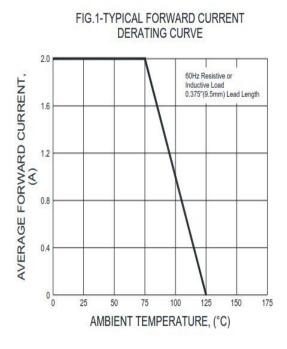


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

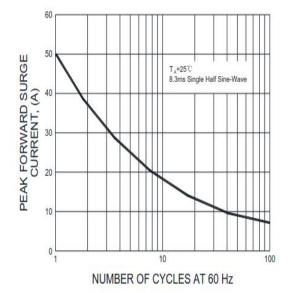


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

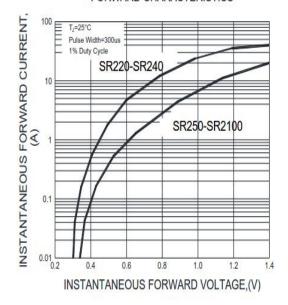
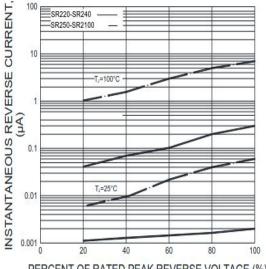


FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.