

SCHOTTKY BARRIER RECTIFIER

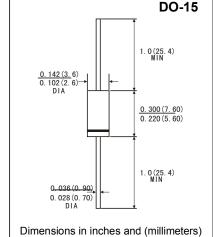
SR220 - SR2200

VOLTAGE RANGE - 20 to 200 V CURRENT - 2 A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- High temperature soldering guaranteed:260 °C/10 seconds, at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC





MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014ounce, 0.39 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified, Single phase, half wave, resistive or inductive load. For capacitive load, derate by 20%.

		Symbols	SR 220	SR 230	SR 240	SR 250	SR 260	SR 280	SR 2100	SR 2150	SR 2200	Units
Maximum repetitive peak reverse voltage		Vrrm	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage		VRMS	14	21	28	35	42	57	71	105	140	Volts
Maximum DC blocking voltage		VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5 mm)lead length at TL=100 °C		l(AV)	2.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load JEDEC method		lfsm	50.0								Amps	
Maximum Instantaneous Forward Voltage at 2.0 A(Note 1)		VF	0.55				0.70	0.	85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	Ta=25 °C		0.2									
	Ta=125 °C	lR	10									mA
Typical thermal resistance (Note 3)		Reuc	35									°C/W
Operating junction and storage temperature range		TJ/ Tsтg	-55 to +150									°C

Notes:

- 1. Pulse test: 300 µs pulse width 1% duty cycle
- 2. Thermal resistance from junction to lead and /or to ambient P.C.B. mounted with 0.375"(9.5 mm)lead length with 1.5 x 1.5" (38 x 38 mm) copper pads.
- 3. Measured at 1.0 MHz and reverse voltage of 4.0 Volts.

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RATINGS AND CHARACTERISTIC CURVES SR220 - SR2200



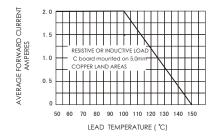


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

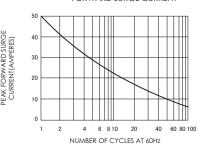


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

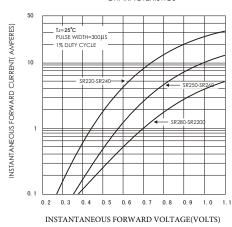


FIG.4-TYPICAL REVERSE CHARACTERISTICS

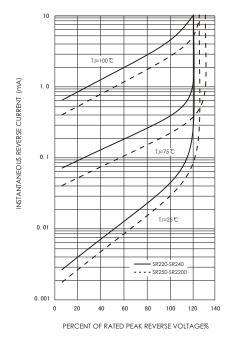
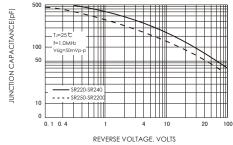


FIG.5-TYPICAL JUNCTION CAPACITANCE



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