



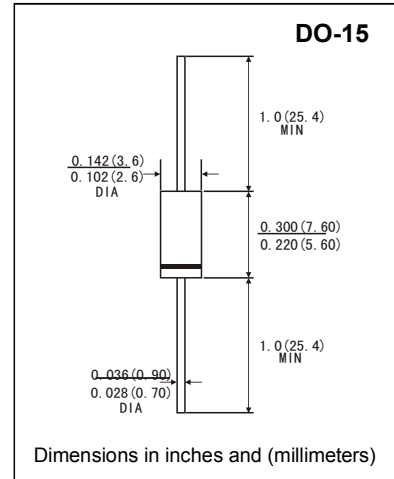
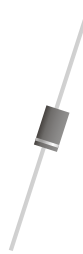
SCHOTTKY BARRIER RECTIFIER

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 °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	V_{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	57	71	105	140	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5 mm)lead length at $T_L=100\text{ }^\circ\text{C}$	$I_{(AV)}$	2.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load JEDEC method	I_{FSM}	50.0									Amps
Maximum Instantaneous Forward Voltage at 2.0 A(Note 1)	V_F	0.55			0.70	0.85	0.90	0.95			Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_a=25\text{ }^\circ\text{C}$	0.2				0.4				mA	
	$T_a=125\text{ }^\circ\text{C}$	10									
Typical thermal resistance (Note 3)	$R_{\theta JC}$	35									$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J / T_{STG}	-55 to +150									$^\circ\text{C}$

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.1-FORWARD CURRENT DERATING CURVE

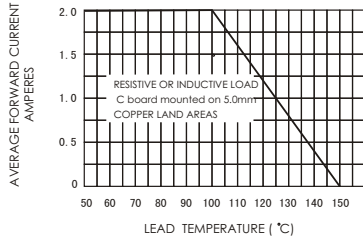


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

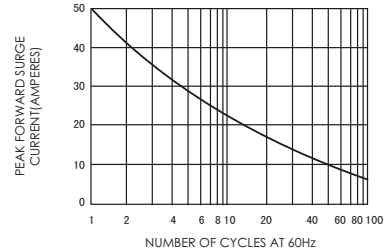


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

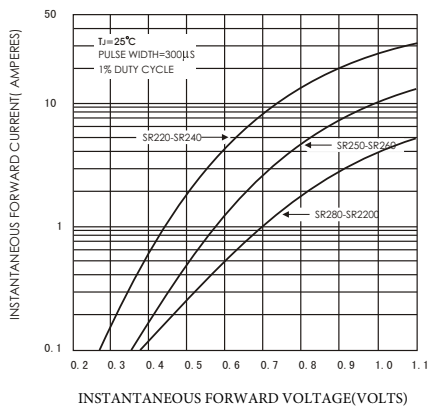


FIG.4-TYPICAL REVERSE CHARACTERISTICS

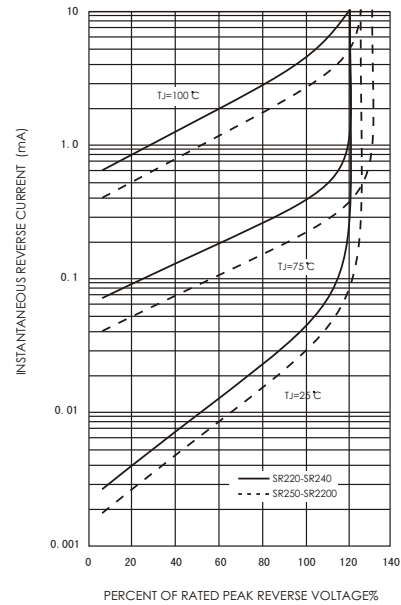


FIG.5-TYPICAL JUNCTION CAPACITANCE

