SR120 THRU SR1100

SCHOTTKY BARRIER RECTIFIER



REVERSE VOLTAGE: 20 to 100 VOLTS
FORWARD CURRENT: 1.0 AMPERE

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FEATURES

- · High current capability
- · High surge current capability
- · Low forward voltage drop
- · Exceeds environmental standards of MIL-S-19500/228
- · For use in low voltage, high frequency inverters free wheeling, and porlarlity protection applications

MECHANICAL DATA

Case: Molded plastic, DO-41

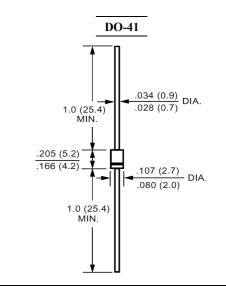
Epoxy: UL 94V-O rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.012ounce, 0.33gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	Units
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 .375"(9.5mm) Lead Length	I _(AV)	1.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							Amp
Maximum Forward Voltage at 1.0A DC and 25	V_{F}	0.55			0.70		0.85		Volts
Maximum Reverse Current at T _A =25 at Rated DC Blocking Voltage T _A =100	I_R	0.5 10							mAmp
Typical Junction Capacitance (Note 1)	C_{J}	110							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50							/ W
Operating Junction Temperature Range	$T_{\mathbf{J}}$	-55 to +125 -55 to +150							
Storage Temperature Range	Tstg	-55 to +150							

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted with 0.22x0.22" (5.5x5.5mm) copper pads



RATINGS AND CHARACTERISTIC CURVES

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