

SR120 THRU SR1200

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

20 to 200 VOLTS 1.0 AMPERE



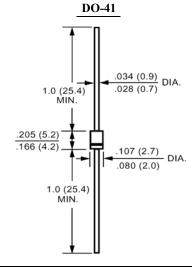
- High current capability
 High surge current capability
 Low forward voltage drop
 Exceeds environmental standards of MIL-S-19500/228
 For use in low voltage, high frequency inverters
- free wheeling, and porlarlity protection applications
- Suffix "H" indicates Halogen-free parts, ex. SR120H.

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



Dimensions in inchs and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

Parameter	Symbols	SR120	SR130	SR140	SR150	SR160	SR180	SR1100	SR1150	SR1200	Units
Maximum Recerrent 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	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	I _(AV)	1.0									Amp
.375"(9.5mm) Lead Length											
Peak Forward Surge Current,											
8.3ms single half-sine-wave	I _{FSM} 30.0									Amp	
superimposed on rated load (JEDEC method)											
Maximum Forward Voltage at 1.0A DC and 25°C	V _F	0.55			0.70 0		.85	0.	95	Volts	
Maximum Reverse Current at T _A =25°C	т	0.5									
at Rated DC Blocking Voltage T _A =100°C	I _R		10		5.0						mAmp
Typical Junction Capacitance (Note 1)	CJ	110									pF
Typical Thermal Resistance (Note 2)	R _{0JA}	50.0									°C/W
Operating and Storage Temperature Range	T _J , Tstg	-65 to +125 -65 to +150							ĉ		

NOTES:

1- Measured at 1 $\ensuremath{\mathsf{MH}_{\mathsf{Z}}}$ and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted with 0.22x0.22" (5.5x5.5mm) copper pads



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RATINGS AND CHARACTERISTIC CURVES

