

SR220 THRU SR2200

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: 20 to 200 VOLTS FORWARD CURRENT: 2.0 AMPERE

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

· Suffix "H" indicates Halogen-free parts, ex. SR220H.

MECHANICAL DATA

Case: Molded plastic, DO-15

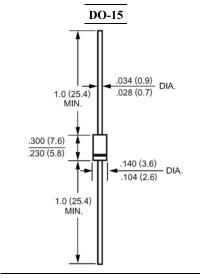
Epoxy: UL 94V-O rate flame retardant

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, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Parameter	Symbols	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	SR2150	SR2200	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	т	2.0									Amp
.375"(9.5mm) Lead Length	I _(AV)										
Peak Forward Surge Current,										Amp	
8.3ms single half-sine-wave	I_{FSM}	50.0									
superimposed on rated load (JEDEC method)											
Maximum Forward Voltage at 2.0A DC and 25℃	$V_{\rm F}$		0.55		0.	70	0.	.85	0.	95	Volts
Maximum Reverse Current at T _A =25℃	0.5								•		mAmp
at Rated DC Blocking Voltage T _A =100℃	I _R		20								
Typical Junction Capacitance (Note 1)	C_{J}	180									pF
Typical Thermal Resistance (Note 2)	R _{0 JA}	45.0									°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +125 -55 to +150								С	

NOTES:

- 1- Measured at 1 MHz 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



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RATINGS AND CHARACTERISTIC CURVES

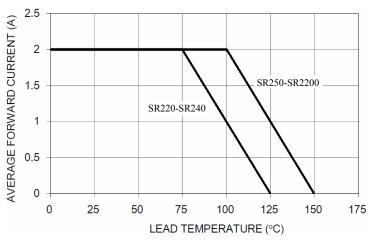


FIG.1- FORWARD CURRENT DERATING CURVE

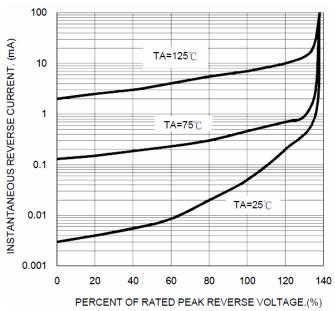


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

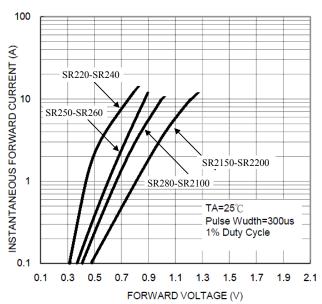


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

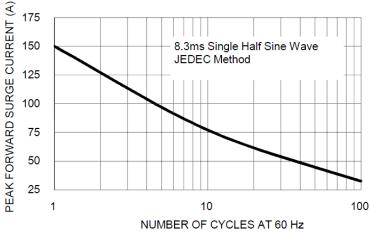


FIG. 4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

