

SR320 THRU SR3200

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: 20 to 200 VOLTS FORWARD CURRENT: 3.0 AMPERE

FEATURES

- · High current capabillty
- · 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. SR320H.

MECHANICAL DATA

Case: Molded plastic, DO-201AD

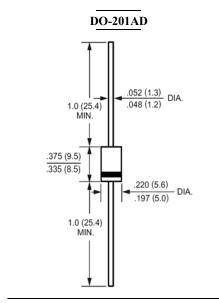
 $Epoxy: UL\ 94V\text{-}O\ rate\ flame\ retardant$

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	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	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	ī	3.0									Amp
.375"(9.5mm) Lead Length	I _(AV)										
Peak Forward Surge Current,											
8.3ms single half-sine-wave	I _{FSM} 80.0										Amp
superimposed on rated load (JEDEC method)											
Maximum Forward Voltage at 3.0A DC and 25℃	$V_{\rm F}$	0.55			0.	0 0.85		0.95		Volts	
Maximum Reverse Current at T _A =25℃	T	0.5									A
at Rated DC Blocking Voltage T _A =100℃	I_R		20		10						mAmp
Typical Junction Capacitance (Note 1)	C_{J}	250									pF
Typical Thermal Resistance (Note 2)	R _{0 JA}	40.0									°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +125 -55 to +150							${\mathfrak C}$		

NOTES:

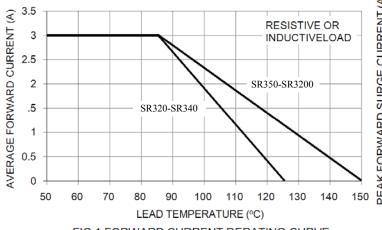
- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted



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RATINGS AND CHARACTERISTIC CURVES



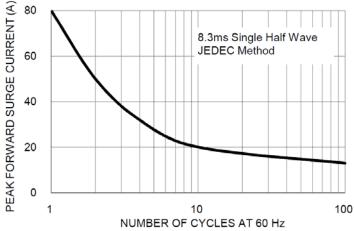
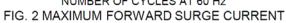
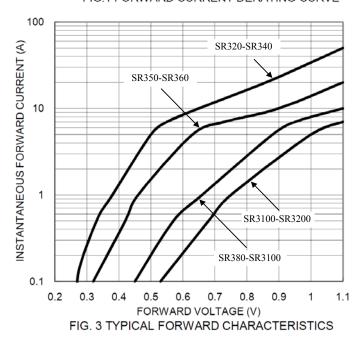
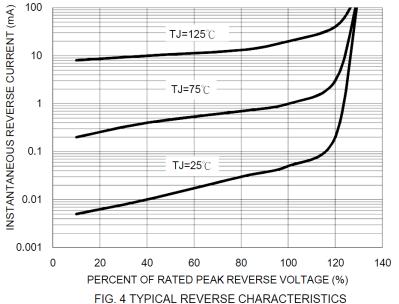


FIG.1 FORWARD CURRENT DERATING CURVE







Revision 1.1S