SR320S-SR3200S



3.0 AMP. Schottky Barrier Rectifiers

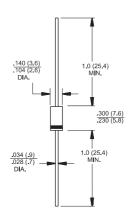






Features

- ♦ Low power loss, high efficiency.
- ♦ High current capability, Low VF.
- ♦ High reliability
- → High surge current capability.
- ♦ Epitaxial construction.
- ♦ Guard-ring for transient protection.
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application



Mechanical Data

- ♦ Cases: DO-201AD molded plastic
- ♦ Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ♦ Weight: 0.014ounces,0.39 grams

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	SR3	SR3	SR3	SR3	SR3	SR3	SR3	SR3	SR3	SR3	Units
		20S	30S	40S	50S	60S	80S	90S	100S	150S	200S	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	150	200	V
Maximum Average Forward Rectified Current	Lava	3.0									Α	
See Fig. 1	I _(AV)	0.0										/ \
Peak forward surge current												
8.3ms single half sine-wave superimposed	IFSM	80.0										Α
on rated load (JEDEC Method)											ļ	
Maximum Instantaneous Forward Voltage @3.0A	V_{F}	0.45 0.55			0.70	1	0.85			V		
Maximum D.C. Reverse Current @ T _A =25 °C	I _R	0.5					0.1					mΑ
at Rated DC Blocking Voltage @ T _A =125 °C	чĸ			10		5	2.0		2.0			111/
Typical Junction Capacitance (Note 2)	Cj	200				130		72			pF	
Typical Thermal Resistance (Note 1)	ermal Resistance (Note 1) R _{0JA} 50									°C/W		
	$R_{\theta,JC}$	15										C/VV
Operating Junction Temperature Range	T_J	-55 to +150					-55 to +175					°C
Storage Temperature Range	Tstg	-55 to +150						-55 to +175				°C

Notes: 1. Mount on Cu-Pad Size 16mm x 16mm on P.C.B.

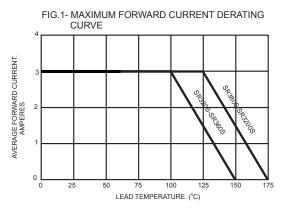
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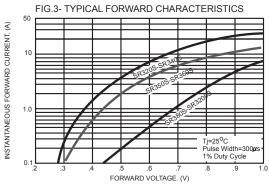


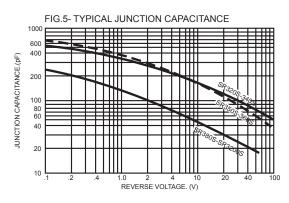
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RATINGS AND CHARACTERISTIC CURVES







Revision:20241109-P2

