SR320 - SR3100

3.0 AMPS. Schottky Barrier Rectifiers



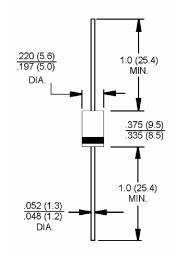
DO-201AD

Features

- Low power loss, high efficiency.
- High current capability, Low VF.
- \diamond 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
- \diamond Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- 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: 1.1 grams



Dimensions in inches and (millimeters)

WW = Work Week

SR30X = Specific Device Code = Year

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%

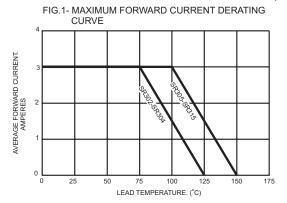
Type Number	Symbol	SR 320	SR 330	SR 340	SR 350	SR 360	SR 3 8	SR 310	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	3.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80							Α
Maximum Instantaneous Forward Voltage @3.0A	V _F	0.55			0.	0.70		0.85	V
Maximum D.C. Reverse Current @ T _A =25 °C	I _R	0.5					0.1		mA
at Rated DC Blocking Voltage @ T _A =125 °C	• •	10		5		2.0		mA	
Typical Junction Capacitance (Note 2)	Cj	200		130		72		pF	
Typical Thermal Resistance (Note 1)	R _{0JA}	50							°C/W
	$R_{\theta JC}$	15							
Operating Junction Temperature Range	TJ	-65 to +125 -65 to +150						°C	
Storage Temperature Range	Tstg	-65 to +150							°C

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

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



RATINGSANDCHARACTERISTICCURVES(SR302THURSR310)



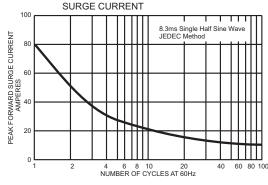


FIG.2- MAXIMUM NON-REPETITIVE FORWARD

