

SR1620 - SR16150

16.0 AMPS. Schottky Barrier Rectifiers

TO-220AB



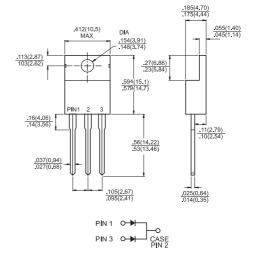


Features

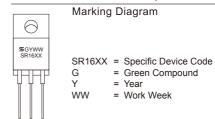
- Low power loss, high efficiency.
- High current capability, Low VF.
- High reliability
- High surge current capability.
- Epitaxial construction.
- Guard-ring for transient protection.
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- Cases: TO-220AB molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Pure tin plated, lead free. solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: As marked
- High temperature soldering guaranteed: 260°C/10 seconds.25",(6.35mm) from case.
- Weight: 2.24 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	SR16 20	SR16 30	SR16 40	SR16 50	SR16 60	SR16 90	SR16 100	SR16 150	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	63	70	105	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	90	100	150	V
Maximum Average Forward Rectified Current See Fig. 1	I (AV)	16.0							Α	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	lfsм	170							Α	
Maximum Instantaneous Forward Voltage @ 8.0A	VF	0.55		0.	70	0.90		1.05	V	
Maximum D.C. Reverse Current @ Tc=25 °C	1_	0.5				0.1			mA	
at Rated DC Blocking Voltage @ Tc=100 °C	R		15		10		5			mA
Typical Junction Capacitance (Note 2)	Cj	440 320						рF		
Typical Thermal Resistance (Note 1)	Rелс	2.5							°C/W	
Operating Junction Temperature Range	Тл	-65 to +125				-65	to +1	°C		
Storage Temperature Range	Tstg	-65 to +150							°C	

Notes:

- 1. Mounted on Heatsink Size of 2" x 3" x 0.25" Al-Plate.
- 2. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

Version: D09



RATINGS AND CHARACTERISTIC CURVES (SR1620 THRU SR16150)

