

SR1020 - SR10150

10.0 AMPS. Schottky Barrier Rectifiers **TO-220AB**



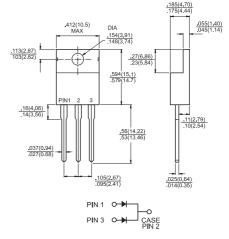


Features

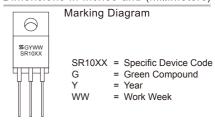
- Low power loss, high efficiency.
- \diamond High current capability, Low VF.
- High reliability
- High surge current capability.
- Epitaxial construction.
- Guard-ring for transient protection.
- For use in low voltage, high frequency inventor, free wheeling, and polarity protection application
- Green 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	SR 1020	SR 1030	SR 1040	SR 1050	SR 1060	SR 1090	SR 10100	SR 10150	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	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)	10.0							Α	
Peak Forward Surge Current, 8,3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I FSM	120							А	
Maximum Instantaneous Forward Voltage @5.0A	VF	0.55 0.70			0.	.85	0.95	V		
Maximum D.C. Reverse Current @ Tc=25 °C	I R	0.5					0.1			mA
at Rated DC Blocking Voltage @ Tc=100°C	IR		15		1	10		5.0		mA
Typical Junction Capacitance (Note 2)	Cj	310							pF	
Typical Thermal Resistance (Note 1)	Rejc	3.0							°C/W	
Operating Junction Temperature Range	Тл	-65 to +125 -65 to +150						°C		
Storage Temperature Range	Tstg	-65 to +150							°C	

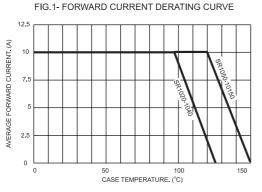
Notes: 1. Thermal Resistance from Junction to Case Per Leg, Mounted on Heatsink size of 2" x 3" x 0.25" Al-Plate.

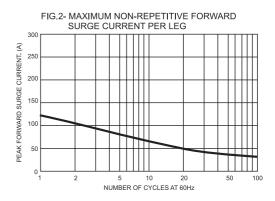
2. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

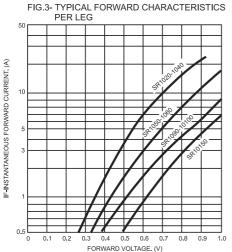
Version: D09

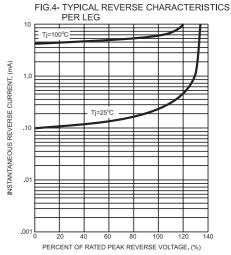


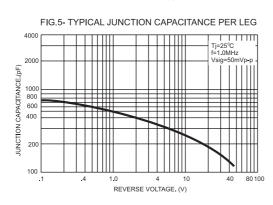
RATINGS AND CHARACTERISTIC CURVES (SR1020 THRU SR10150)

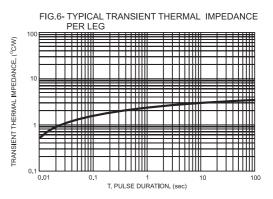












Version: D09