



SR2020 - SR20150

20.0 AMPS. Schottky Barrier Rectifiers

TO-220AB

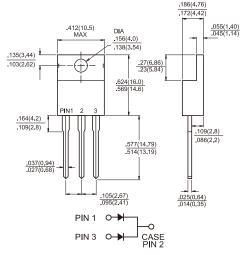


Features

- UL Recognized File # E-326243
- 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.

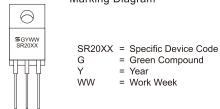
Mechanical Data

- 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. Mounting torque: 5 in – lbs. max.
- Weight: 1.82 grams



Dimensions in inches and (millimeters)

Marking Diagram



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%

To capacitive load, derate current by 2070											
Type Number		Symbol	SR 2020	SR 2030	SR 2040	SR 2050	SR 2060	SR 2090	SR 20100	SR 20150	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 F(AV)	20							Α	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		IFSM	200							А	
Maximum Instantaneous Forward Voltage@10A		VF	0.55		0.	70	0.90		1.00	V	
Maximum D.C. Reverse	Reverse @ TA=25 °C		0.5 0.1						mA		
Current at Rated DC	@ Ta=100 °C	I _R		15		1	0		-		mA
Blocking Voltage (Note1)	@ Ta=125 °C		_					5.0			mA
Typical Junction Capacitance (Note 2)		Cj	430		360				pF		
Typical Thermal Resistance (Note 3)		Rелс	1.0						°C/W		
Operating Junction Temperature Range		ΤJ	-65	-65 to +125 -65 to +150				°C			
Storage Temperature Range		Tstg	-65 to +150								°C

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.
- 3. Mount on Heatsink Size of (4"x6"x0.25") Al-Plate

Version: E10



RATINGS AND CHARACTERISTIC CURVES (SR2020 THRU SR20150)

