

# SR2030 THRU SR20150

## 20.0 AMPS. SCHOTTKY BARRIER RECTIFIERS

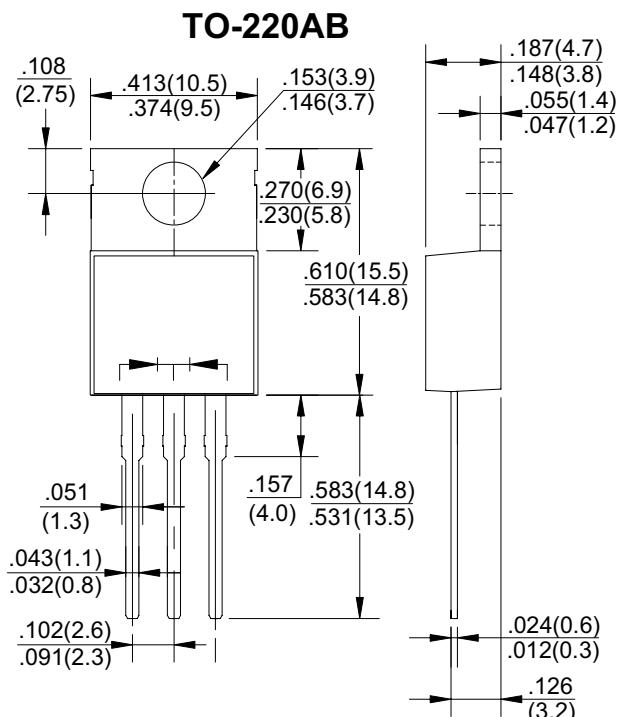
Voltage Range  
30 to 150 Volts  
Current  
20.0 Amperes

### FEATURES

- Metal of silicon rectifier , majority carrier conduction
- Guarding for transient protection
- Low power loss,high efficiency
- High current capability,low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage,high frequency inverters,free wheeling, and polarity protection applications

### MECHANICAL DATA

- Case: TO-220AB molded plastic
- Polarity: As marked on the body
- Weight: 0.08ounces,2.24 grams
- Mounting position :Any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SR 2030	SR 2040	SR 2050	SR 2060	SR 2080	SR 20100	SR 20150	UNIT
Maximum Recurrent Peak Reverse Voltage	VR <sub>RM</sub>	30	40	50	60	80	100	150	V
Maximum RMS Voltage	VR <sub>RMS</sub>	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	40	50	60	80	100	150	V
Maximum Average Forward Rectified Current ( See Fig.1) @T <sub>c</sub> =95 °C	I <sub>(AV)</sub>					20			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>					250			A
Peak Forward Voltage at 10.0A DC(Note1)	V <sub>F</sub>	0.55	0.60	0.70		0.85		0.95	V
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Bolcking Voltage @T <sub>J</sub> =100°C	I <sub>R</sub>				1.0				mA
					50				
Typical Junction Capacitance (Note2)	C <sub>J</sub>				600				pF
Typical Thermal Resistance (Note3)	R <sub>θJC</sub>				2.0				°C/W
Operating Temperature Range	T <sub>J</sub>				-55to+150				°C
Storage Temperature Range	T <sub>STG</sub>				-55to+150				°C

NOTES:1.300us pulse width,2% duty cycle.

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3.Thermal resistance junction to case.

# RATING AND CHARACTERISTIC CURVES SR2030 THRU SR20150

