

SR1020 THRU SR1060

10.0 AMPS. Schottky Barrier Rectifiers



Voltage Range 20 to 60 Volts Current 10.0 Amperes

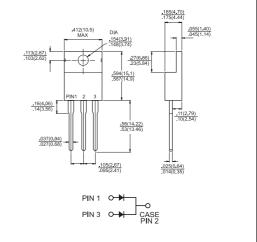
TO-220

Features

- ♦ High current capability
- ♦ High reliability
- High surge current capability

Mechanical Data

- ♦ Cases: TO-220 molded plastic
- ♦ Epoxy: UL 94V-O rate flame retardant
- ♦ Terminals: Leads 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	SR	SR	SR	SR	Units
		1020	1030	1040	1050	1060	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	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}	175					А
Maximum Instantaneous Forward Voltage @5.0A	V_{F}	0.55			0.70		٧
Maximum D.C. Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	I _R	0.5 50					mA mA
Typical Thermal Resistance (Note 1)	$R\theta_{JC}$	3.0					C /W
Typical Junction Capacitance (Note 2)	Cj	310					pF
Operating Junction Temperature Range	TJ	-65 to +125		-65 to +150		C	
Storage Temperature Range	Tstg	-65 to +150					T

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

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



