

## **SR1620 THRU SR1660**

16.0 AMPS. Schottky Barrier Rectifiers



Voltage Range 20 to 60 Volts Current 16.0 Amperes

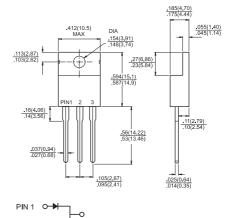
**TO-220** 

#### **Features**

- ♦ Low forward voltage drop
- 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



# PIN 3 O N CASE PIN 2 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
		1620	1630	1640	1650	1660	
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 <sub>(AV)</sub>	16.0					Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	250					А
Maximum Instantaneous Forward Voltage @ 8.0A	V <sub>F</sub>	0.55 0.70			V		
Maximum D.C. Reverse Current @ Tc=25℃		0.5					mA
at Rated DC Blocking Voltage @ Tc=100℃	$I_R$	50					mA
Typical Thermal Resistance (Note 1)	$R\theta JC$	3.0					°C/W
Typical Junction Capacitance (Note 2)	Cj	700		460		pF	
Operating Junction Temperature Range	T <sub>J</sub>	-65 to +125		-65 to +150		Ĉ	
Storage Temperature Range	Tstg	-65 to +150					${\mathfrak C}$

Notes: 1. Thermal Resistance from Junction to Case Per Leg

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

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