

## **SR1620 THRU SR1660**

16.0 AMPS. Schottky Barrier Rectifiers



Voltage Range 20 to 60 Volts Current 16.0 Amperes

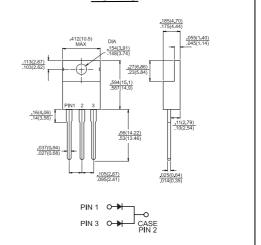
TO-220

## **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%

To capacitive lead, derate earrent by 2070						
Symbol	SR 1620	SR 1630	SR 1640	SR 1650	SR 1660	Units
$V_{RRM}$	20	30	40	50	60	V
$V_{RMS}$	14	21	28	35	42	V
$V_{DC}$	20	30	40	50	60	V
I <sub>(AV)</sub>	16.0					А
I <sub>FSM</sub>	200				А	
V <sub>F</sub>	0.55		0.70		V	
I <sub>R</sub>	0.5 50				mA mA	
$R\theta_{JC}$	2.5				C/W	
Cj	440			3	20	pF
TJ	-65 to +125		-65 to	+150	C	
T <sub>STG</sub>	-65 to +150				C	
	$\begin{tabular}{c} Symbol \\ \hline V_{RRM} \\ \hline V_{RMS} \\ \hline V_{DC} \\ \hline I_{(AV)} \\ \hline I_{FSM} \\ \hline V_{F} \\ \hline I_{R} \\ \hline R\theta_{JC} \\ \hline Cj \\ \hline T_{J} \\ \hline \end{tabular}$	Symbol SR 1620   V <sub>RRM</sub> 20   V <sub>RMS</sub> 14   V <sub>DC</sub> 20   I <sub>(AV)</sub> I <sub>FSM</sub> V <sub>F</sub> I <sub>R</sub> R θ <sub>JC</sub> Cj   T <sub>J</sub> -6	Symbol SR 1620 SR 1630   VRRM 20 30   VRMS 14 21   VDC 20 30   I(AV) IFSM 0.55   IR R θJC 440   Cj 440 -65 to +12	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

Notes: 1. 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.



