

## **SRS1620** THRU **SRS1660**

16.0 AMPS. Schottky Barrier Rectifiers



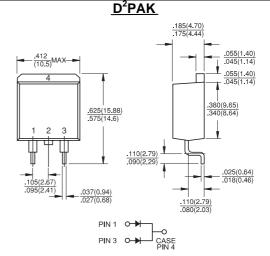
Voltage Range 20 to 60 Volts Current 16.0 Amperes

## **Features**

- ♦ For surface mounted application
- ♦ Low forward voltage drop
- ♦ High current capability
- → High reliability
- High surge current capability

## **Mechanical Data**

- ♦ Cases: D<sup>2</sup>PAK 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 at terminals
- ♦ Weight: 1.70 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	SRS 1620	SRS 1630	SRS 1640	SRS 1650	SRS 1660	Units
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>	200					Α
Maximum Instantaneous Forward Voltage @8.0A	V <sub>F</sub>	0.55		0.70		V	
Maximum D.C. Reverse Current @ Tc=25°C	ı	0.5					mA
at Rated DC Blocking Voltage @ Tc=100℃	I <sub>R</sub> 50					mΑ	
Typical Thermal Resistance (Note 1)	$R\theta_{JC}$	2.0					<b>C</b> /W
Typical Junction Capacitance (Note 2)	Cj	700			460		pF
Operating Junction Temperature Range	TJ	-65 to +125		-65 to +150		Ç	
Storage Temperature Range	T <sub>STG</sub>	-65 to +150					C

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

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



