

SRS1020 THRU **SRS1060**

10.0 AMPS. Schottky Barrier Rectifiers



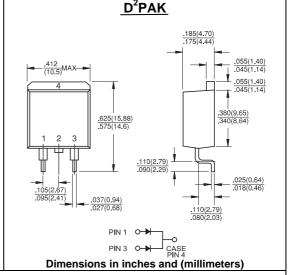
Voltage Range 20 to 60 Volts Current 10.0 Amperes

Features

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

Mechanical Data

- ♦ 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



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%

I of capacitive load, defate current by 20%							
Type Number	Symbol	SRS 1020	SRS 1030	SRS 1040	SRS 1050	SRS 1060	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 _(AV)	10.0					А
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		V
Maximum D.C. Reverse Current @ Tc=25℃ at Rated DC Blocking Voltage @ Tc=100℃	I _R	0.5 50					mA mA
Typical Thermal Resistance (Note 1)	$R\theta_{JC}$	2.0					°C/W
Typical Junction Capacitance (Note 2)	Cj	400					pF
Operating Junction Temperature Range	TJ	-65 to +125 -65 to +1			+150	°C	
Storage Temperature Range	Tstg	-65 to +150					ဗ

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

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



