

SRS1020 THRU **SRS1060**

10.0 AMPS. Schottky Barrier Rectifiers



Voltage Range 20 to 60 Volts Current 10.0 Amperes

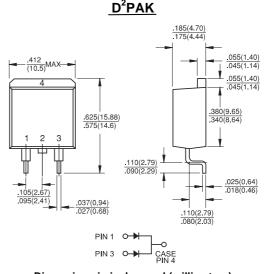
Features

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

Mechanical Data

- ♦ Cases: D²PAK 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: 1.70grams



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	SRS	SRS	SRS	SRS	Units
Type Humber	Cy	1020	1030	1040	1050	1060	Ormo
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					Α
Maximum Instantaneous Forward Voltage @5.0A	V_{F}	0.55			0.70		V
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)	$R\theta_{JC}$	2.0					C /W
Typical Junction Capacitance (Note 2)	Cj	400					pF
Operating Junction Temperature Range	TJ	-65 to +125		-65 to +150		t	
Storage Temperature Range	Tstg	-65 to +150					t

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

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



