



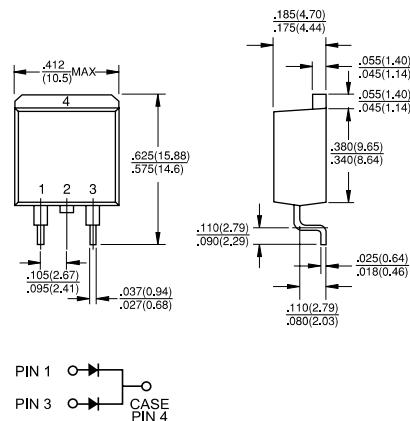
SRS1020 THRU SRS1060

10.0 AMPS. Schottky Barrier Rectifiers



Voltage Range
20 to 60 Volts
Current
10.0 Amperes

D²PAK



Dimensions in inches and (millimeters)

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: 250°C/10 seconds at terminals
- ◊ Weight: 1.70grams

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	SRS1020	SRS1030	SRS1040	SRS1050	SRS1060	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current See Fig. 1				10.0		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)				175		A
Maximum Instantaneous Forward Voltage @ 5.0A	0.550			0.700		V
Maximum D.C. Reverse Current @ T _c =25°C at Rated DC Blocking Voltage @ T _c =100°C		0.5		50		mA
Typical Thermal Resistance (Note 1) R _{θJC}		2.0				°C/W
Typical Junction Capacitance (Note 2)		400				pF
Operating Junction Temperature Range T _J	-65 to +125		-65 to +150			°C
Storage Temperature Range T _{STG}		-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.

RATINGS AND CHARACTERISTIC CURVES (SRS1020 THRU SRS1060)

FIG.1- FORWARD CURRENT DERATING CURVE

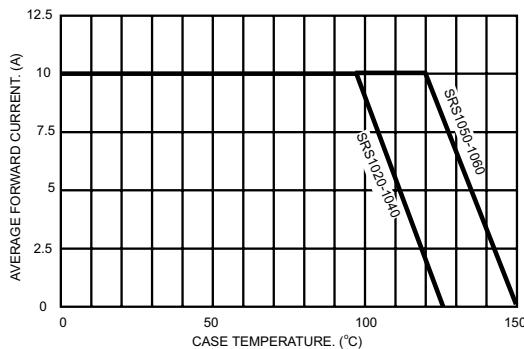


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

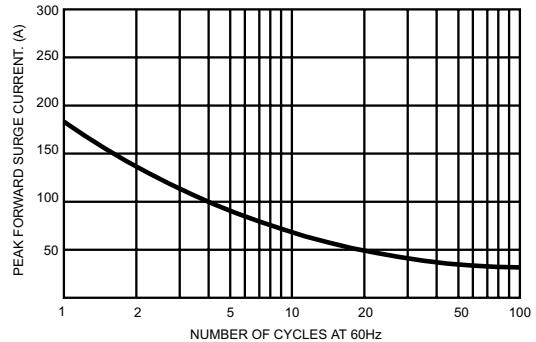


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER LEG

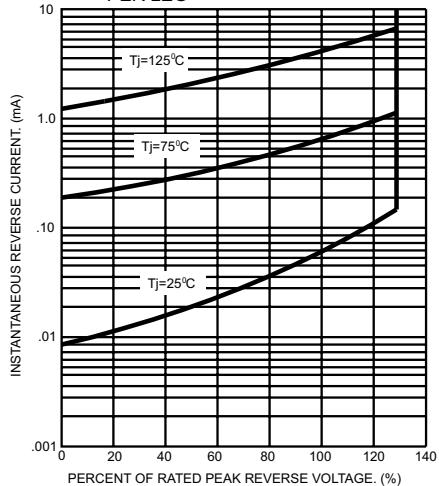


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER LEG

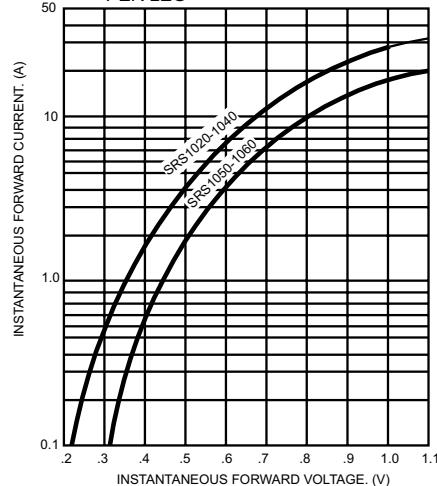


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

