

SRS2020 THRU **SRS2060**

20.0 AMPS. Schottky Barrier Rectifiers



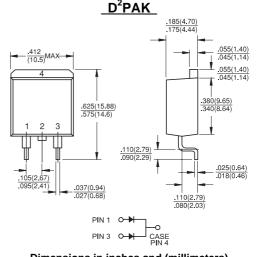
Voltage Range 20 to 60 Volts Current 20.0 Amperes

Features

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

Mechanical Data

- ♦ Epoxy: UL 94V-0 rate flame retardant
- ♦ Terminals: Lead 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 | SRS | SRS | SRS | SRS | Units |
|--|-------------------|-------------|------|-------------|------|------|-------------|
| | | 2020 | 2030 | 2040 | 2050 | 2060 | |
| 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) | 20.0 | | | | | Α |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I _{FSM} | 250 | | | | | А |
| Maximum Instantaneous Forward Voltage @ 10.0A | V_{F} | 0.55 | | | 0. | 0.70 | |
| Maximum D.C. Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C | I_R | 1.0 50 | | | | | mA mA |
| Typical Thermal Resistance (Note 1) | $R\theta_{JC}$ | 1.5 | | | | | C /W |
| Typical Junction Capacitance (Note 2) | Cj | 600 | | | 400 | | pF |
| Operating Junction Temperature Range | TJ | -65 to +125 | | -65 to +150 | | C | |
| Storage Temperature Range | T _{STG} | -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.



