

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SR5020 THRU SR5060

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 60 Volts CURRENT - 50 Amperes

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

* Case: Molded plastic

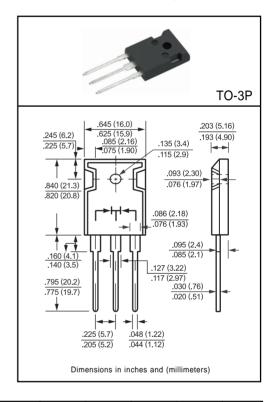
* Epoxy: UL 94V-0 rate flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

* Polarity: As marked * Mounting position: Any * Weight: 5.6 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.



| | | SYMBOL | SR5020 | SR5030 | SR5040 | SR5050 | SR5060 | UNITS |
|---------------------------------------------------------------------------------------------------|-------------|--------|--------------|---------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | | VRRM | 20 | 30 | 40 | 50 | 60 | Volts |
| Maximum RMS Voltage | | VRMS | 14 | 21 | 28 | 35 | 42 | Volts |
| Maximum DC Blocking Voltage | | VDC | 20 | 30 | 40 | 50 | 60 | Volts |
| Maximum Average Forward Rectified Current | | Io | 50 | | | | | Amps |
| at Derating Case Temperature | | 10 | | | | | | |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | | IFSM | 400 | | | | | Amps |
| Maximum Instantaneous Forward Voltage at 25.0A DC | | VF | | .65 .75 | | | .75 | Volts |
| Maximum DC Reverse Current | @Tc = 25°C | - IR | 10 | | | | | mAmps |
| at Rated DC Blocking Voltage | @Tc = 100°C | IK IK | 100 | | | | | mAmps |
| Typical Thermal Resistance (Note 1) | | RθJC | 1.2 | | | | | °C/W |
| Operating Temperature Range | | TJ | -65 to + 150 | | | | | ٥C |
| Storage Temperature Range | | Тѕтс | -65 to + 150 | | | | | ٥C |

NOTES: 1. Thermal Resistance Junction to Case per leg.

2. Suffix "A" = Common Anode.

RATING AND CHARACTERISTIC CURVES (SR5020 THRU SR5060)

