

TECHNICAL SPECIFICATIONS OF 16.0AMP SCHOTTKY BARRIER RECTIFIERS



VOLTAGE RANGE
20 to 60 Volts
CURRENT
16.0 Amperes

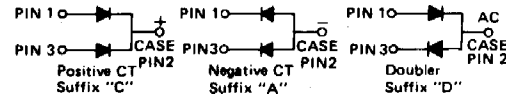
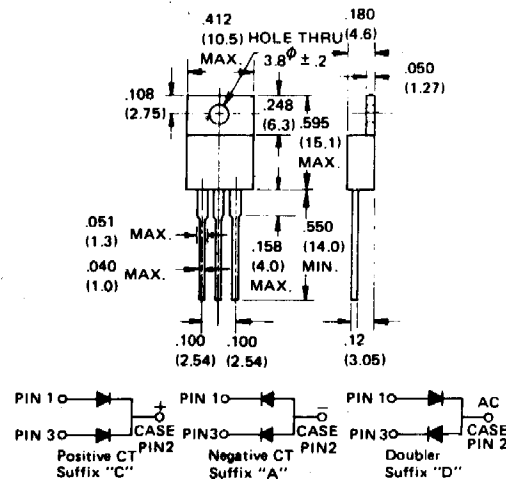
TO-220

FEATURES

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

MECHANICAL DATA

- * Case: TO-220 molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminal: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.24 grams



Dimensions in inches and (millimeters)

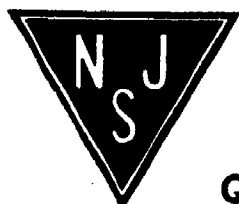
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%

| | SR1602 | SR1603 | SR1604 | SR1605 | SR1606 | 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 .375" (9.5mm) lead length | 16 | | | | | A |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 200 | | | | | A |
| Maximum Instantaneous Forward Voltage at 8.0A DC | .65 | | .75 | | | V |
| Minimum Average Reverse Current at Rated DC Blocking Voltage T _C = 25°C | 10 | | | | | mA |
| Typical Thermal Resistance R _{θJC} (Note 1) | 3 | | | | | °C/W |
| Operating Temperature Range T _C | -65 to +125 | | | -65 to +150 | | °C |
| Storage Temperature Range T _{STG} | -65 to +150 | | | | | °C |

NOTES:

1. Thermal Resistance Junction to Case



Quality Semi-Conductors