multicomp PRO



Features:

- · Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data:

| Case | : JEDEC DO-41 molded plastic |
|-------------------|-------------------------------|
| Polarity | : Colour band denotes cathode |
| Weight | : 0.012 ounces, 0.34 grams |
| Mounting Position | : Any |
| Reverse Voltage | : 40 to 60 Volts |
| Forward Current | : 1 Ampere |
| | |

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristics | Symbol | SR140 | SR160 | Unit | |
|--|--------|----------------|-------|------|--|
| Max. Recurrent Peak Reverse Voltage | Vrrm | 40 | 60 | | |
| Max. RMS Voltage | Vrms | 28 | 42 | | |
| Max. DC Blocking Voltage | VDC | 40 | 60 | 7 | |
| Max. Average Forward Rectified Current0.375" (9.5mm) Lead Lengths@TL = 100°C | l(AV) | 1.0 | | A | |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | Іғѕм | 30 | | | |
| Peak Forward Voltage at 1A DC | VF | 0.55 | 0.7 | V | |
| Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 100^{\circ}C$ | IR | 1 10 | | mA | |
| Typical Junction Capacitance (Note 1) | CJ | 110 | 80 | pF | |
| Typical Thermal Resistance (Note 2) | Rejl | 15 | | °C/W | |
| Operating Temperature Range | TJ | -55 to +150 °C | | • | |
| Storage Temperature Range | Tstg | | | | |

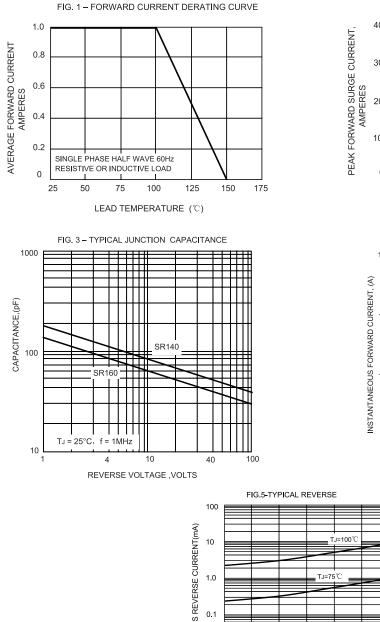
Notes:

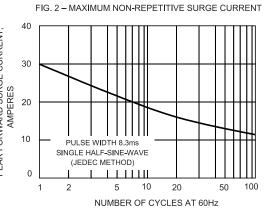
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal resistance junction to lead
- 3. The typical data above is for reference only

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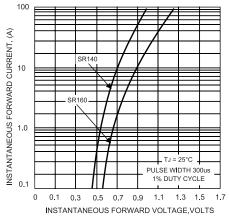


Ratings and Characteristic Curves









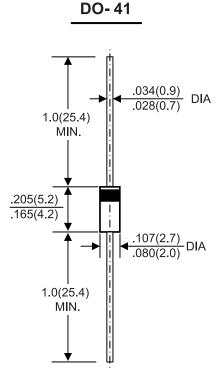
INSTANTANEOUS REVERSE CURRENT(mA) T.I=25 0.01 0.001 20 40 60 80 100 120 140 0 PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

| Description | Part Number | |
|---|-------------|--|
| Schottky Barrier Rectifier, 1A 40V, DO-41 | SR140 | |
| Schottky Barrier Rectifier, 1A 60V, DO-41 | SR160 | |

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