

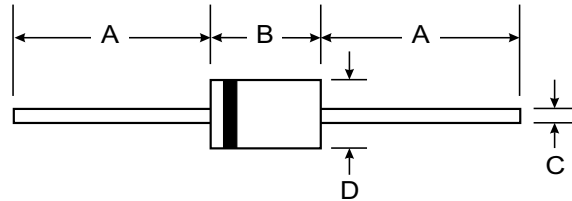
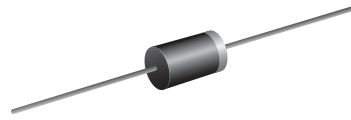
VOLTAGE RANGE: 50 - 1000V
CURRENT: 1.5 A

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375 (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

- Case : DO-15 Molded plastic
- Epoxy : UL94V-0 rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.465 gram



| DO-15 | | |
|----------------------|-------|-------|
| Dim | Min | Max |
| A | 25.40 | — |
| B | 5.50 | 7.62 |
| C | 0.686 | 0.889 |
| D | 2.60 | 3.60 |
| All Dimensions in mm | | |



Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| | SYMBOLS | 1N5391 | 1N5392 | 1N5393 | 1N5394 | 1N5395 | 1N5396 | 1N5397 | 1N5398 | 1N5399 | UNITS |
|--|-----------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | V _{RMS} | 35 | 70 | 140 | 210 | 280 | 350 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | V _{DC} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =75°C | I _(AV) | 1.5 | | | | | | | | | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 50.0 | | | | | | | | | Amps |
| Maximum instantaneous forward voltage at 1.5A | V _F | 1.4 | | | | | | | | | Volts |
| Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C | I _R | 5.0 50.0 | | | | | | | | | uA |
| Typical junction capacitance (NOTE 1) | C _J | 20.0 | | | | | | | | | pF |
| Typical thermal resistance (NOTE 2) | R _{qJA} | 50.0 | | | | | | | | | °C/W |
| Operating junction and storage temperature range | T _J , T _{STG} | -65 to +175 | | | | | | | | | °C |

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES 1N5391 THRU 1N5399

