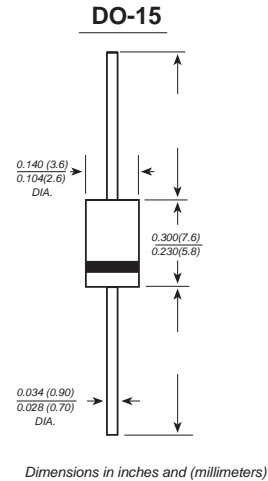


## FEATURES

- ◆ 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:** JEDEC DO-15 molded plastic body  
**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026  
**Polarity:** Color band denotes cathode end  
**Mounting Position:** Any  
**Weight:** 0.014 ounce, 0.40 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

|   | SYMBOLS    | 1N5392 |     |     |     |     |     |      | UNITS |
|---|------------|--------|-----|-----|-----|-----|-----|------|-------|
| Maximum repetitive peak reverse voltage   | $V_{RRM}$  | 50     | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage   | $V_{RMS}$  | 35     | 70  | 140 | 280 | 420 | 560 | 700  | VOLTS |
| Maximum DC blocking voltage   | $V_{DC}$   | 50     | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current<br>0.375" (9.5mm) lead length at $T_A=75^\circ\text{C}$               | $I_{(AV)}$ | 1.5    |     |     |     |     |     |      | Amps  |
| Peak forward surge current<br>8.3ms single half sine-wave superimposed on<br>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<br>$T_A=25^\circ\text{C}$<br>at rated DC blocking voltage<br>$T_A=100^\circ\text{C}$ |            |        |     |     |     |     |     |      |       |
| Typical junction capacitance (NOTE 1)   |            |        |     |     |     |     |     |      |       |
| Operating junction and storage temperature range  |            |        |     |     |     |     |     |      |       |

**Note:** 1. Measured at 1MHz (and applied reverse voltage in V)  $r_{Tf} = 3.805 \times 10^{-9} \times V + 1.291 \times 10^{-7} - 3.397 \times 10^{-5}$  38.2 12 1M re Tf -3.395 Tf -3.3J0 plied-1 r

