



Features:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Specifications:

Mechanical Data:

| | |
|---------------------------------------|---|
| Cases | : Moulded plastic |
| Lead | : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed |
| Polarity | : Colour band denotes cathode end |
| High temperature soldering guaranteed | : 260°C/10 seconds/0.375", (9.5mm) lead lengths at 5lbs., (2.3kg) tension |
| Weight | : 0.4g |

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%.

| Type Number | Symbol | 1N5397G | 1N5399G | Units |
|--|------------|---------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 600 | 1,000 | V |
| Maximum RMS Voltage | V_{RMS} | 420 | 700 | |
| Maximum DC Blocking Voltage | V_{DC} | 600 | 1,000 | |
| Maximum Average Forward Rectified Current 0.375 inch (9.5mm) Lead Length at $T_A = 60^\circ\text{C}$ | $I_{(AV)}$ | 1.5 | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I_{FSM} | 50 | | |
| Maximum Instantaneous Forward Voltage at 1.5A | V_F | 1 | | V |

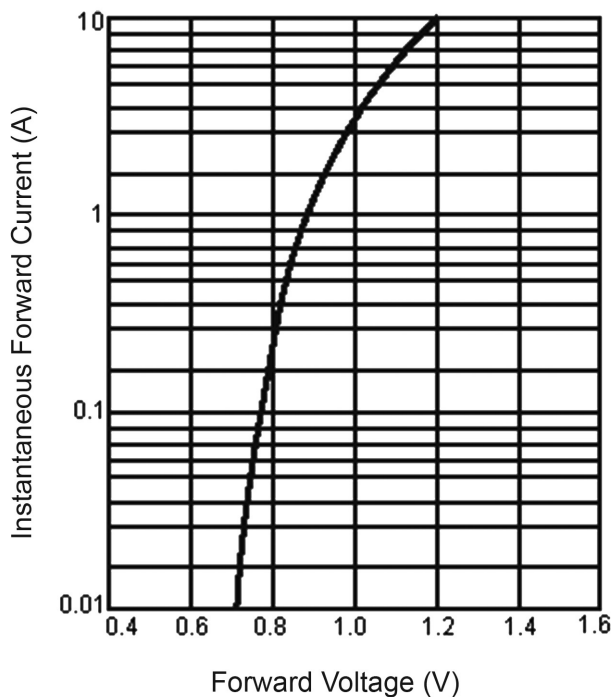
| Type Number | Symbol | 1N5397G | 1N5399G | Units |
|---|-----------------|---------------|---------|--------------------------------|
| Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$ | I_R | 5 100 | | μA μA |
| Typical Junction Capacitance (Note 1) | C_j | 15 | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 65 | | $^\circ\text{C}/\text{W}$ |
| Operating and Storage Temperature Range | T_J, T_{STG} | - 65 to + 150 | | $^\circ\text{C}$ |

Note 1: Measured at 1MHz and Applied Reverse Voltage of 4V DC.

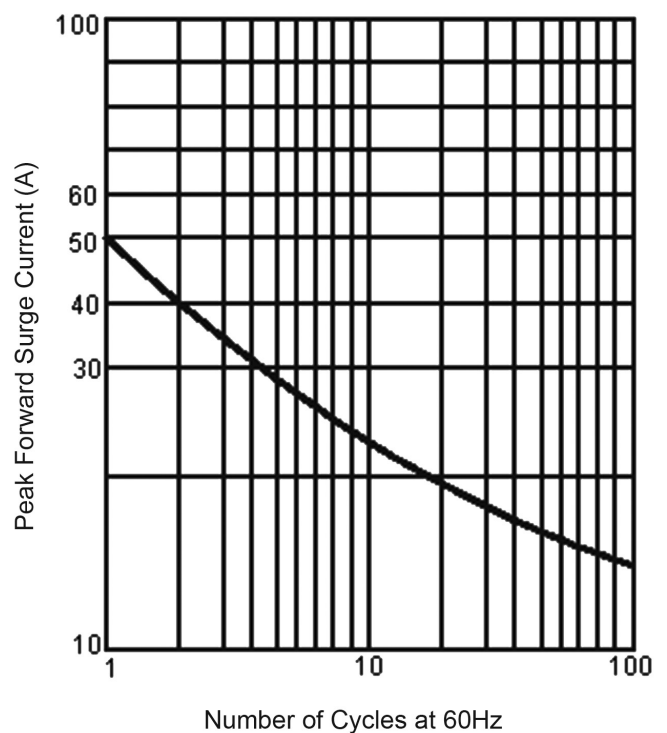
Note 1: Mount on Cu-Pad Size 10mm × 10mm on PCB.

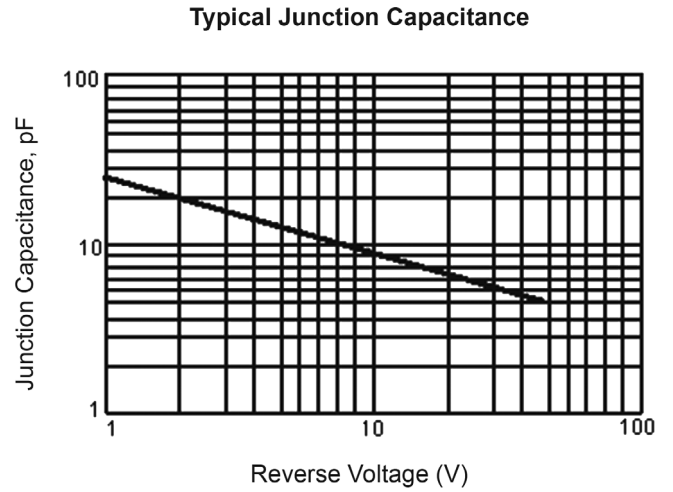
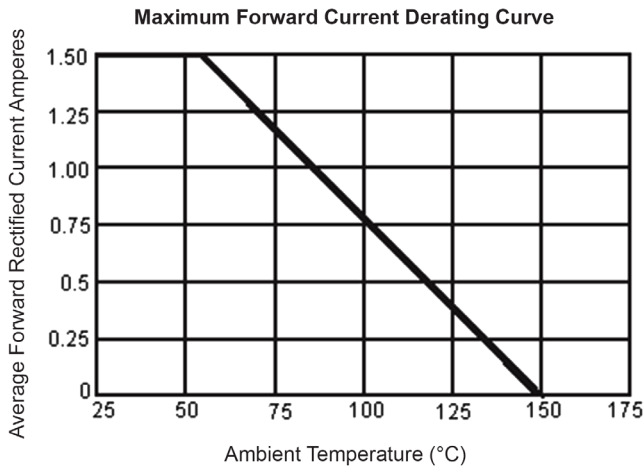
Ratings and Characteristic Curves (1N5391 thru 1N5399)

Typical Forward Characteristics

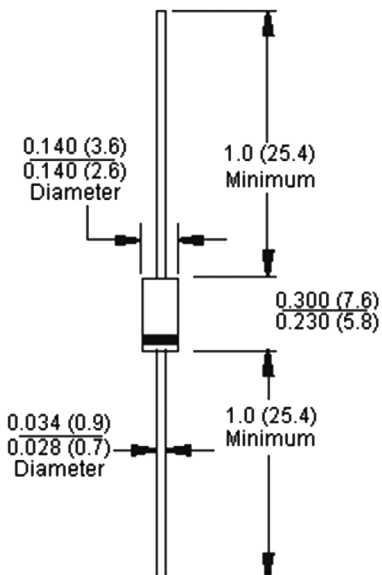


Maximum Non-Repetitive Forward Surge Current





DO-15



Dimensions : Inches (Millimetres)

Part Number Table

| Description | Part Number |
|-------------------------------|-------------|
| Diode, Standard, 1.5A, 600V | 1N5397G |
| Diode, Standard, 1.5A, 1,000V | 1N5399G |

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