

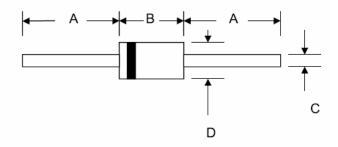
1N4001G-1N4007G 1.0A GLASS PASSIVATED RECTIFIER

Technical Data
Data Sheet N0544, Rev. Features

Green Products

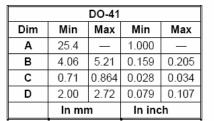
Diffused Junction

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: Part Name, SSG and Date Code



Marking Diagram:

Where XXXXX is YYWWL



1N4001 = Part Name SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

| Device | Package | Shipping |
|-----------------|--------------------|----------------|
| 1N4001G-1N4007G | DO-41 (Pb-Free) | 5000pcs / reel |

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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

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

| Characteristic | Symbol | 1N 4001G | 1N 4002G | 1N 4003G | 1N 4004G | 1N 4005G | 1N 4006G | 1N 4007G | Unit |
|---|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | ٧ |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 280 | 420 | 560 | 700 | ٧ |
| Average Rectified Output Current (Note 1) @T _A = 75°C | lo | 1.0 | | | | | | А | |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 30 | | | | | | Α | |
| Forward Voltage @I _F = 1.0A | VFM | 1.0 | | | | | | ٧ | |
| Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C | lгм | 5.0 50 | | | | | | μΑ | |
| Typical Junction Capacitance (Note 2) | Cj | 8.0 | | | | pF | | | |
| Typical Thermal Resistance Junction to Ambient (Note 1) | RθJA | 100 | | | | | K/W | | |
| Operating Temperature Range | Tj | -65 to +175 | | | | | °C | | |
| Storage Temperature Range | Тѕтс | -65 to +175 | | | | | °C | | |

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

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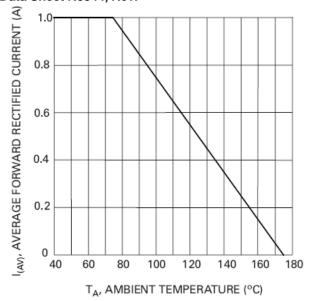


Fig. 1 Forward Current Derating Curve

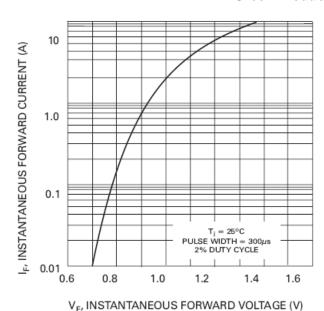


Fig. 2 Typical Forward Characteristics

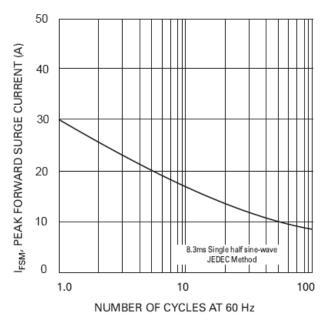


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

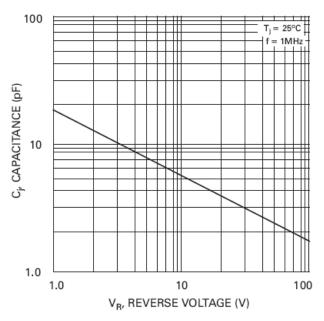


Fig. 4 Typical Junction Capacitance

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