TSC Sb

1N4001G THRU 1N4007G

1.0 AMP. Glass Passivated Rectifiers

м

Voltage Range 50 to 1000 Volts Current 1.0 Ampere

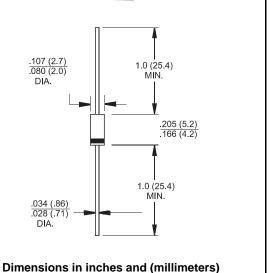
DO-41

Features

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

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode end
- → High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- ♦ Weight: 0.34 gram



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

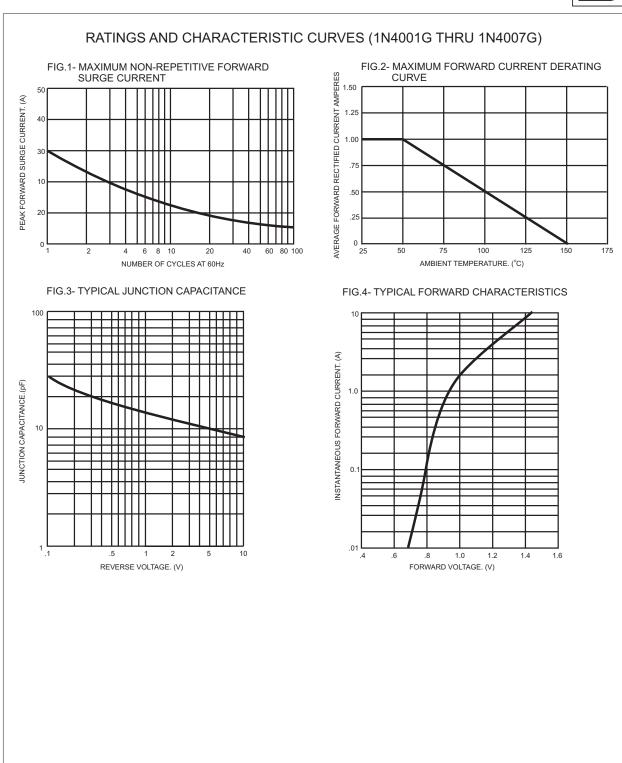
For capacitive load, derate current by 20%

| Type Number | Symbol | 1N 4001G | 1N 4002G | 1N 4003G | 1N 4004G | 1N 4005G | 1N 4006G | 1N 4007G | Units |
|--|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length $@T_A = 50^{\circ}C$ | I _(AV) | 1.0 | | | | | | | Α |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I _{FSM} | 30 | | | | | | | Α |
| Maximum Instantaneous Forward Voltage @1.0A | V _F | 1.0 | | | | | | | V |
| Maximum DC Reverse Current @ T_A =25°C at Rated DC Blocking Voltage @ T_A =125°C | I _R | 5.0 100 | | | | | | | uA uA |
| Typical Junction Capacitance (Note 1) | Cj | 10 | | | | | | | рF |
| Typical Thermal Resistance (Note 2) | $R	heta_{JA}$ | 65 | | | | | | | OC/W |
| Operating and Storage Temperature Range | T_J, T_{STG} | - 65 to + 150 | | | | | | | ပ္ |

Note: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.





This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.