

# Glass Passivated Standard Rectifier

## 1N4001G THRU 1N4007G

**Current: 1A**

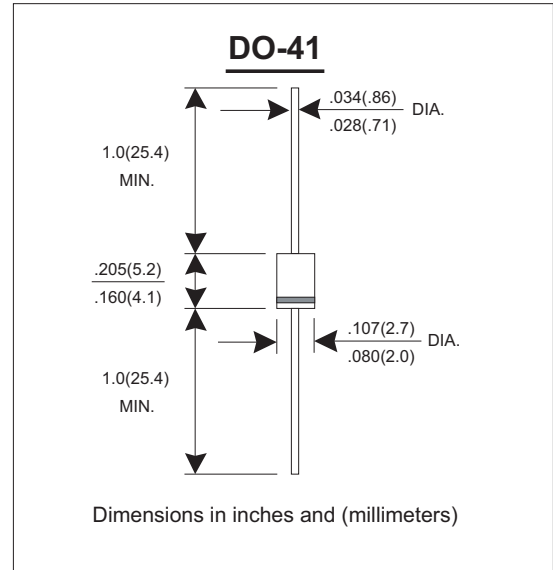
**Voltage: 50 ~ 1000V**

### Features

- Low forward voltage drop
- High current capability
- Low reverse leakage current
- High Surge current capability

### Mechanical Data

- Case: Molded plastic DO-41
- Epoxy: UL 94-0 rate flame retardant
- Terminal: Solderable per MIL-STD-202 method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.34 gram



### Maximum Rating 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%.

	SYMBOL	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current T <sub>L</sub> =55°C	I <sub>(AV)</sub>	1.0							A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30							A
Maximum Instantaneous Forward Voltage @ 1.0 A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @T <sub>J</sub> =25°C At Rated DC Blocking Voltage @T <sub>J</sub> =125°C	I <sub>R</sub>	5.0 100							uA uA
Typical junction Capacitance (Note 1)	C <sub>J</sub>	10							pF
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	45							°C/W
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

NOTES : (1) Thermal Resistance junction to lead.  
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

**-G** suffix designates RoHS compliant Version

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**COMCHIP**  
SMD DIODE SPECIALIST



## Rating and Characteristic Curves 1N4001G THRU 1N4007G

FIG.1 - FORWARD CURRENT DERATING CURVE

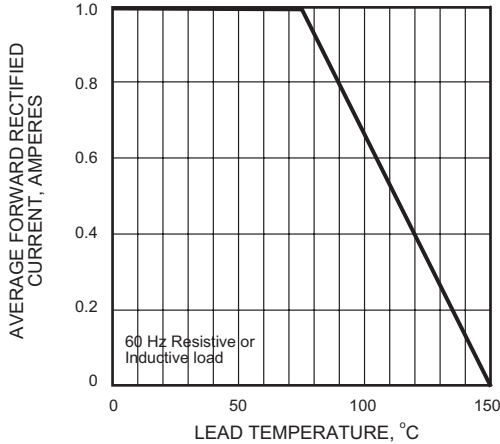


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

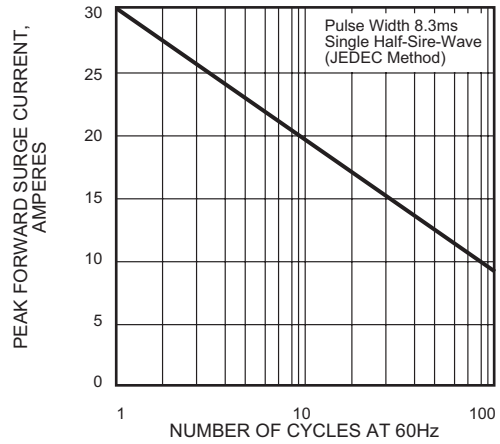


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

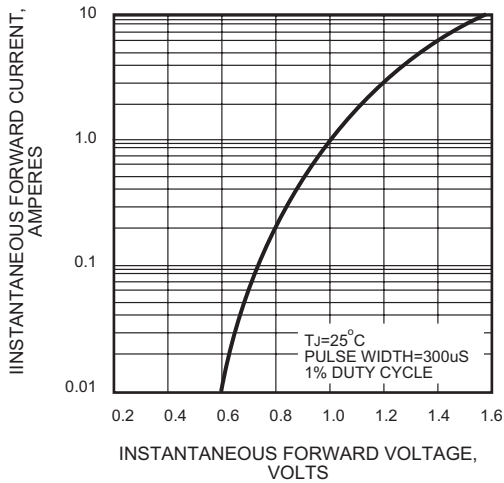


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

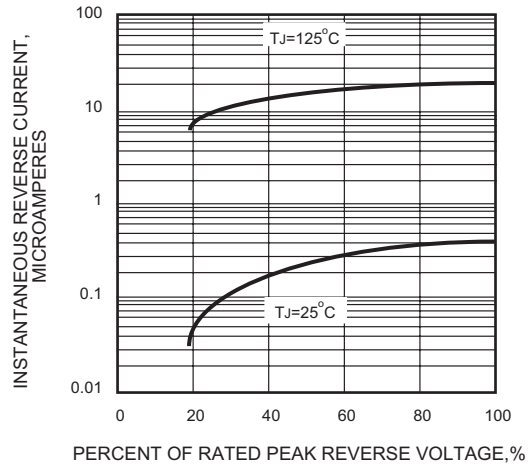
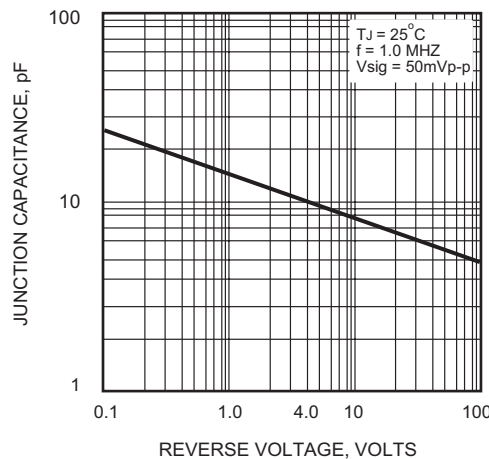


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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