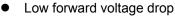


1 A Glass Passivated Junction Rectifiers 1N4001G THRU 1N4007G 50 to 1000 V 1.0 A

XXYYYY

777

Features



- High current capability
- High reliability
- High surge current capability
- Glass Passivated Junction Rectifiers

Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-O rate flame retardant
- Mark Description: The white section of the diode polarity (negative) to identify, CP marking Logo, "XX" for the product category label, "YYYY" for the product type marking, "ZZZ" for use in product date code will change
- Lead: Axial leads, solder able per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- High temperature soldering guaranteed:250°C/10
- seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg)tension
- Weight: 0.34 gram

Maximum Ratings and Electrical Characteristics

Ratings 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	Symbols	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	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 at TA=75℃	I _(AV)	1.0							Amp
Peak Forward Surge Current,8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							Amp
Maximum Forward Voltage at 1.0A and $T_{\text{A}}\text{=}25^\circ\!\!\!^{\circ}\text{C}$	V_{F}	1.0							Volts
Maximum Reverse Current T_A =25 $^\circ\!\!\!C$ at Rated DC Blocking Voltage T_A =125 $^\circ\!\!\!C$	I _R	5.0 50							uAmp
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length@ TA=75℃		30							uA
Typical Junction Capacitance (Note 1)	CJ	8							pF
Typical Thermal Resistance (Note 2)	R₀JC	55							°C/W
Operating and Storage Temperature Range	T _J T _{stg}	-65 to +175							°C

NOTES:

- 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
- 2. Thermal Resistance from Junction to Ambient .375" (9.5mm) Lead Length.

1.0(25.4)MIN 205(5.2)160(4.1) 1.0(25.4)MIN 1.0(25.4)MIN 1.0(25.4)

DO-41

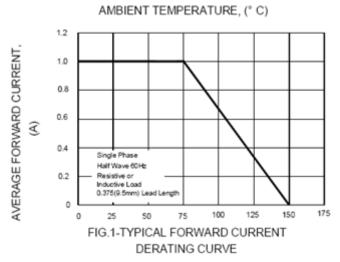
.034(.86) .028(.70)

All dimensions inches and (millimeters)



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RATINGS AND CHARACTERISTIC CURVES (1N4001G THRU 1N4007G)



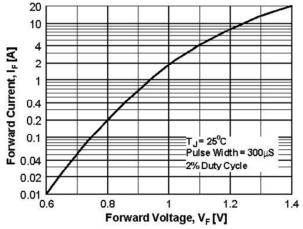


Figure 2. Forward Voltage Characteristics

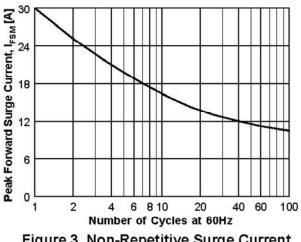


Figure 3. Non-Repetitive Surge Current

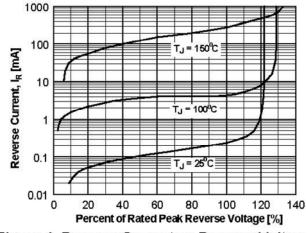


Figure 4. Reverse Current vs Reverse Voltage