

1N4001G THRU 1N4007G

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * High reliability
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * Glass passivated junction

MECHANICAL DATA

* Case: Molded plastic

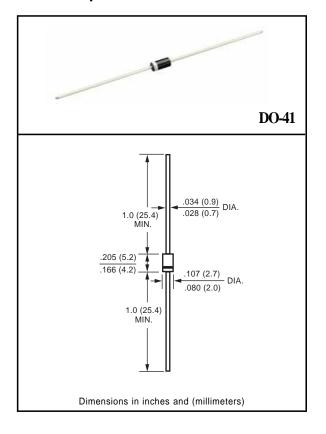
* Epoxy: Device has UL flammability classification 94V-O

* Lead: MIL-STD-202E method 208C guaranteed

* Mounting position: Any* Weight: 0.33 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo	1.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	İFSM	30						Amps	
Typical Junction Capacitance (Note)	CJ	15					pF		
Typical Thermal Resistance	RθJA	50						°C/W	
Typical Thermal Resistance	RθJC	15						°C/W	
Operating and Storage Temperature Range	TJ, Tsтg	-55 to + 150							٥C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	1N4001G 1N4002G 1N4003G 1N4004G 1N4005G 1N4006G 1N4007G	UNITS	
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.1	Volts	
Maximum DC Reverse Current	@TA = 25°C		5.0	uAmps	
at Rated DC Blocking Voltage	@TA = 100°C]	50		
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 75°C		lR	30	uAmps	

NOTES: 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2005-1

REV:A

RATING AND CHARACTERISTIC CURVES (1N4001G THRU 1N4007G)

