



1N4001 THRU 1N4007

1.0 AMP SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwriters Laboratory
 Flammability Classification 94V-0
- * Low cost construction utilizing void-free molded plastic technique
- * Diffused junction
- * Low reverse leakage
- * High current capability
- * Easily cleaned with Freon, Alcohol, Chlorothen, and similar solvents
- * High temperature soldering guaranteed: 265°C/10 seconds/.375"(9.5mm)lead lengths at 5 lbs(2.3kg) tension

MECHANICAL DATA

- * Case: Molded plastic
- * Polarity: Color band denotes cathode end
- * Lead: Plated axial lead, solderable per

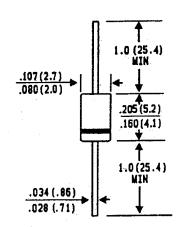
MIL-STD-202E method 208C

* Mounting position: Any

* Weight: 0.012 ounce, 0.3 gram

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.0 Ampere





Dimensions in inches and (millimeters)

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 canacitive load denate current by 20%

		SYMBOL	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm)lead length at TA=75°C		I(AV)				1.0				A
Peak Forward Surge Current 8.3 ms single half sine wave superimposed on rated load (JEDEC method)		Ifsm				30				А
Maximum instantaneous Forward Voltage at 1.0A DC		VF				1.1				V
Maximun Reverse Current at Rated DC Blocking Voltage per element	@TA=25°C	IR	<u> </u>			5.0				uA
	@TA=100°C	HTIR				50				uA
Maximum DC Reverse Current Average, Full cycle .375"(9.5mm) lead length at TL=75°C		HTIR				30				uA
Typical Junction Capacitance (Note1)		CJ		30						pf
Typical Thermal Resistance (Note2)		RTHja		50						
Operating and Storage Temperature Range		Tj, Tstg		-65 TO +175						°C

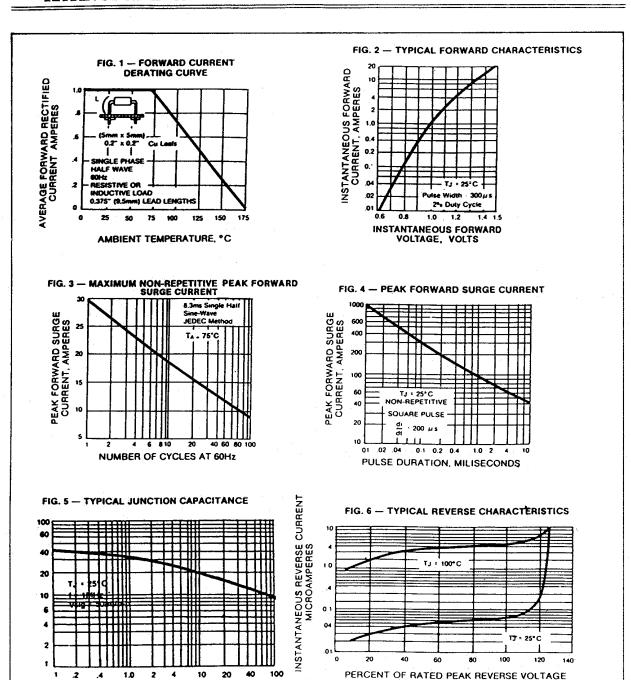
NOTES:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- 2. Thermal Resistance from Junction to Ambient at .375"(9.5mm)lead length, P.C.board mounted.





RATINGS AND CHARACTERISTIC CURVES 1N4001 THRU 1N4007



REVERSE VOLTAGE, VOLTS

This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.