

1N4001 THRU 1N4007

www.fleming1904.com

1.0 AMP SILICON RECTIFIERS



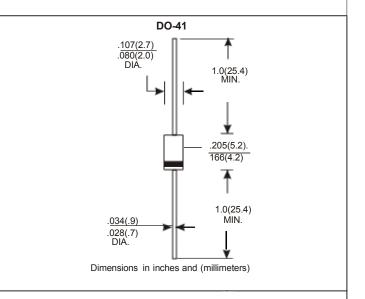
- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.34 grams

VOLTAGE RANGE 50 to 1000 Volts CURRENT

1.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V
Maximum RMS Voltage		70	140	280	420	560	700	V
Maximum DC Blocking Voltage		100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current.								
375"(9.5mm) Lead Length at Ta=75 C		1.0						
Peak Forward Surge Current, 8.3 ms single half sine-	-wave							
superimposed on rated load (JEDEC method)		301.						
Maximum Instantaneous Forward Voltage at 1.0A		05.0						
Maximum DC Reverse Current Ta=25 C	;							μA
at Rated DC Blocking Voltage Ta=100	С	50						A
Typical Junction Capacitance (Note 1)		15						
Typical Thermal Resistance R JA (Note 2)		50						
Operating and Storage Temperature Range ΤJ, Τsτσ		-65 <u>+</u> 175						

NOTES

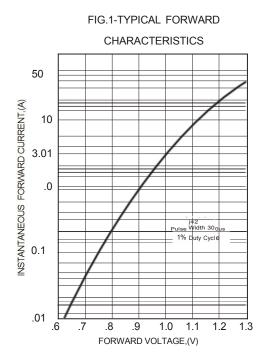
- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.





www.fleming1904.com

RATING AND CHARACTERISTIC CURVES (1N4001 THRU 1N4007)



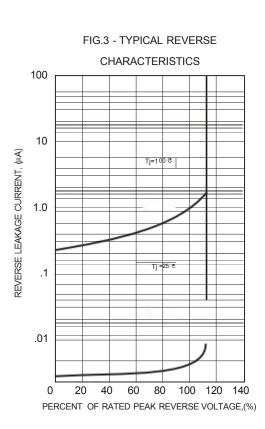


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

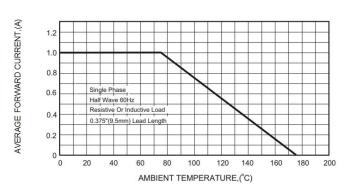


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

