DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU 1N4007

1N4001

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

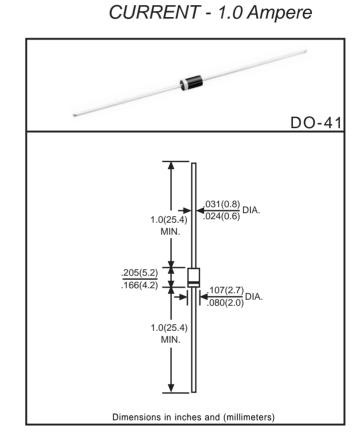
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rated flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.25 gram approx.

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%.

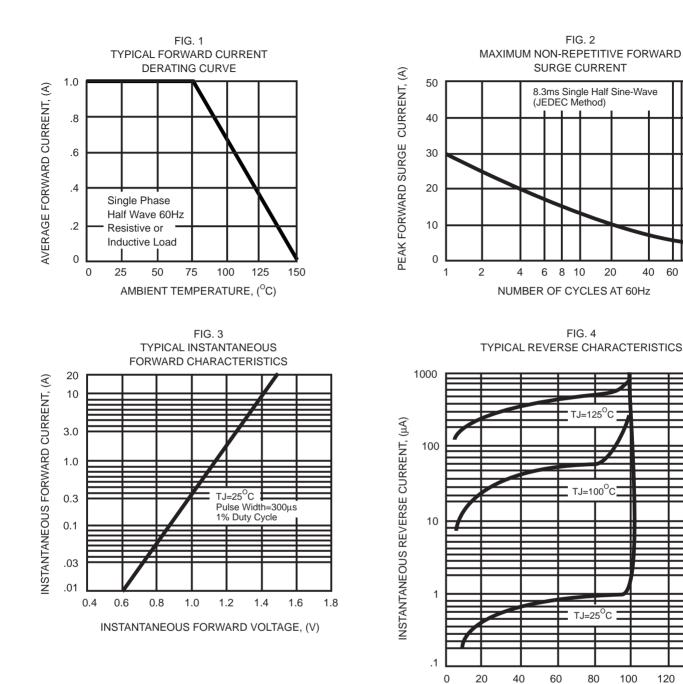


		SYMBOL	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at T _A = 75°C		lo	1.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A =25 [°] C	IR	5.0							μAmps
	@ TA=100°C		500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T∟ = 55°C		IK	30							μι unps
Typical Junction Capacitance (Note 1)		CJ		15						pF
Typical Thermal Resistance (Note 2)		R _θ j a	50						°C/W	
Operating and Storage Temperature Range		Тј,Тѕтс	-55 to +150						°C	

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

Note 2: Typical thermal resistance from junction to ambient.

RATING AND CHARACTERISTIC CURVES (1N4001 THRU 1N4007)



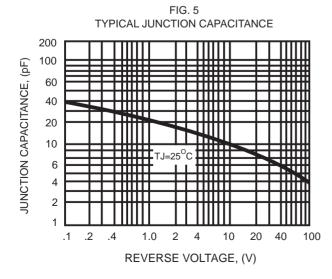
PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

120

140

40

60 80 100



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