DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N4001G THRU 1N4007G

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

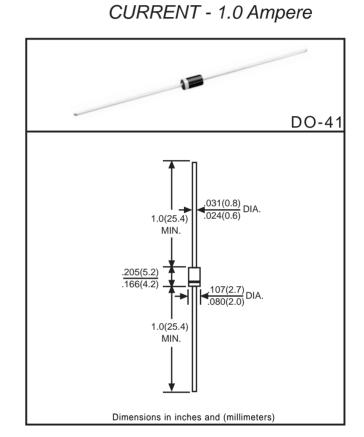
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * Glass passivated junction

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: 0.33 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%.

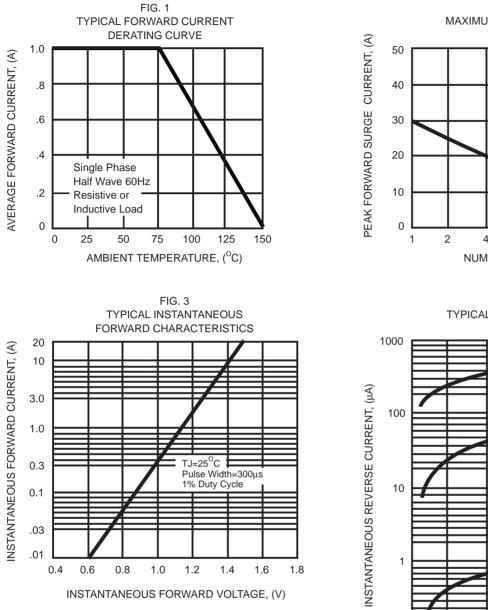


		SYMBOL	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at $T_A = 75^{\circ}C$		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		Ifsm	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA=25°C	- IR	5.0							
	@ T _A =100 [°] C		500							μAmps
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T∟ = 55 [°] C		IK	30							μι inpo
Typical Junction Capacitance (Note 1)		CJ	15							pF
Typical Thermal Resistance (Note 2)		R _{0J} A	50							°C/W
Operating and Storage Temperature Range		Tj,Tstg	-55 to +150							°C

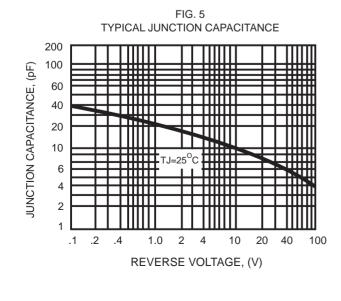
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

Note 2: Typical thermal resistance from junction to ambient.

RATING AND CHARACTERISTIC CURVES (1N4001G THRU 1N4007G)







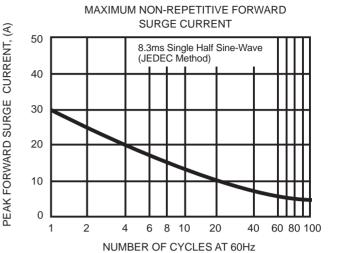
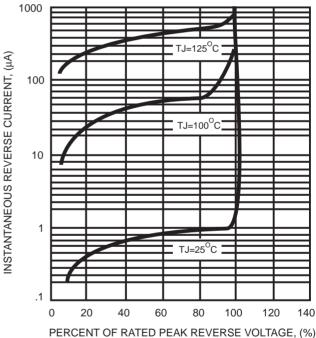


FIG. 2

FIG. 4 TYPICAL REVERSE CHARACTERISTICS



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