DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU 1N5408

1N5400

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

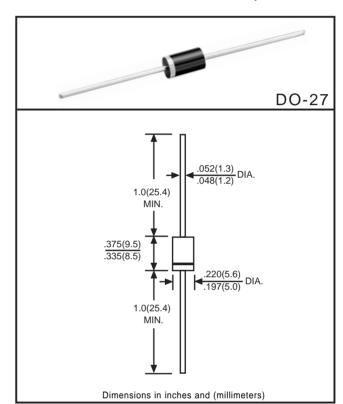
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

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: 1.18 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%.



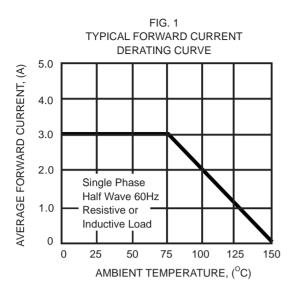
		SYMBOL	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at T _A = 75°C		lo	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	200						Amps	
Maximum Instantaneous Forward Voltage at 3.0A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A =25 [°] C	IR	5.0							μAmps
	@ T _A =100 [°] C		500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T∟ = 55 [°] C		iix	30							μ. unpo
Typical Junction Capacitance (Note 1)		CJ	30						pF	
Typical Thermal Resistance (Note 2)		RθJ A	20						°C/W	
Operating and Storage Temperature Range		Тј,Тѕтс	-55 to +150						°C	

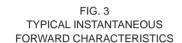
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

Note 2: Typical thermal resistance from junction to ambient.

CURRENT - 3.0 Amperes

RATING AND CHARACTERISTIC CURVES (1N5400 THRU 1N5408)





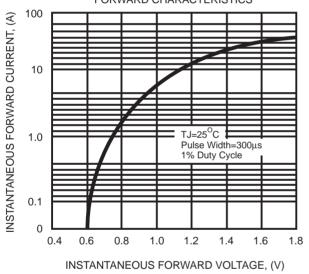


FIG. 5 TYPICAL JUNCTION CAPACITANCE 200 100 JUNCTION CAPACITANCE, (pF) 60 40 ΠU Л Т тп 20 10 ▦ TJ=25^OC 6 4 ПΠ π 2 1 .1 .2 .4 2 4 10 20 40 100 1.0 REVERSE VOLTAGE, (V)

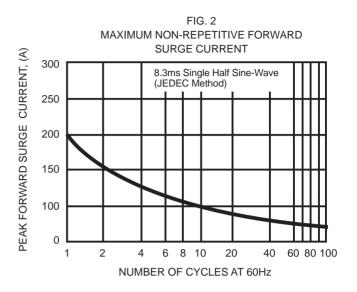
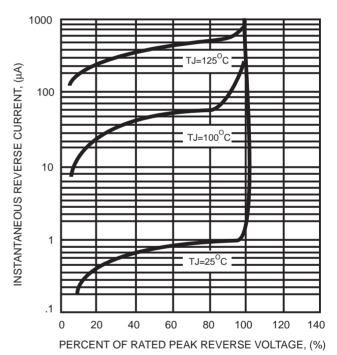


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



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