

Taiwan Goodark Technology Co.,Ltd 1N5400 THRU 1N5408

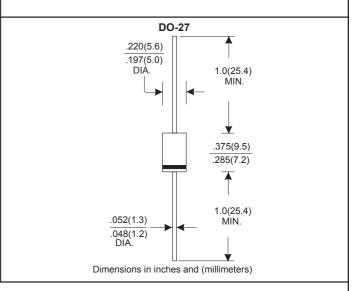
FEATURES

- * 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: 1.10 grams
- * Both normal and Pb free product are available:
- * Normal:80~95%Sn,5~20%Pb
- * Pb free:99 Sn above can meet Rohs enviroment substance directive request

VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 Amperes



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	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								
.375"(9.5mm) Lead Length at Ta=75°C	3.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)	200						Α	
Maximum Instantaneous Forward Voltage at 3.0A	1.0						V	
Maximum DC Reverse Current Ta=25 ℃	5.0						μА	
at Rated DC Blocking Voltage Ta=100℃	50							μА
Typical Junction Capacitance (Note 1)	40						pF	
Typical Thermal Resistance RθJA (Note 2)	30						°C/W	
Operating and Storage Temperature Range Тл, Тэтс	-65—+125							°C

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.



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RATING AND CHARACTERISTIC CURVES (1N5400 THRU 1N5408)

FIG.1-TYPICAL FORWARD **CHARACTERISTICS** 50 INSTANTANEOUS FORWARD CURRENT, (A) 10 3.0 1.0 Pulse Width 300us 1% Duty Cycle 0.1 .01 1.2 .8 .9 .6 1.0 1.1 FORWARD VOLTAGE,(V)

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE AVERAGE FORWARD CURRENT,(A) 2.5 2.0 1.5 Half Wave 60Hz Resistive Or Inductive Load 1.0 0.375"(9.5mm) Lead Length 20 40 100 120 140 160 180 AMBIENT TEMPERATURE,(℃)

FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

