

General Standard Diodes

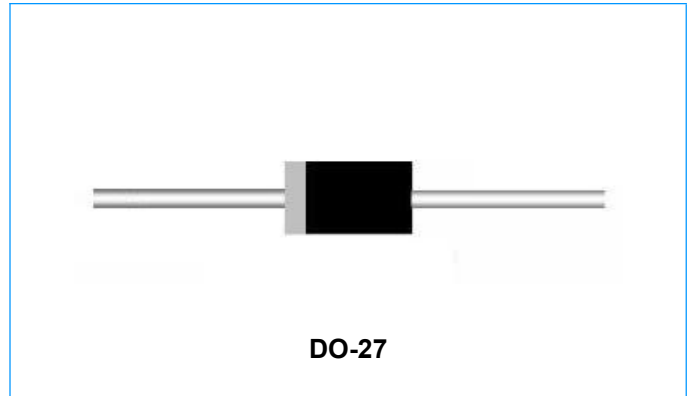
1N5400~1N5408
3A
50 to 1000V
DO-27

Features

- ◆ Low cost construction
- ◆ Low forward voltage drop
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
260°C/10 seconds/0.375(9.5mm) lead length at 5 lbs
(2,3kg) tension

Mechanical Data

- ◆ Case: Transfer molded plastic
- ◆ Epoxy: UL94V-0 rate flame retardant
- ◆ Polarity: Color band denotes cathode end
- ◆ Lead: Plated axial lead ,solderable per MIL-STD-202E
method 208C
- ◆ Mounting position: Any
- ◆ Weight: 0.042 ounce,1.19 grams



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter		Symbol	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.5"(12.5mm) lead length at T _L = 105°C		I_(AV)	3							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)		I_{FSM}	200							A
Maximum Instantaneous Forward Voltage at 3A		V_F	1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I_R	10							μA
	T _A =150°C		500							
Maximum Full Load Reverse Current,full cycle average 0.5"(12.5mm) lead length at T _L =105°C		I_{R(AV)}	500							μA
Typical Junction Capacitance (Note 1)		C_J	40							pF
Typical Thermal Resistance (Note 2)		R_{θJA}	30							°C/W
Operating and Storage Temperature Range		T_J, T_{STG}	-65 ~ +175							°C

NOTES:

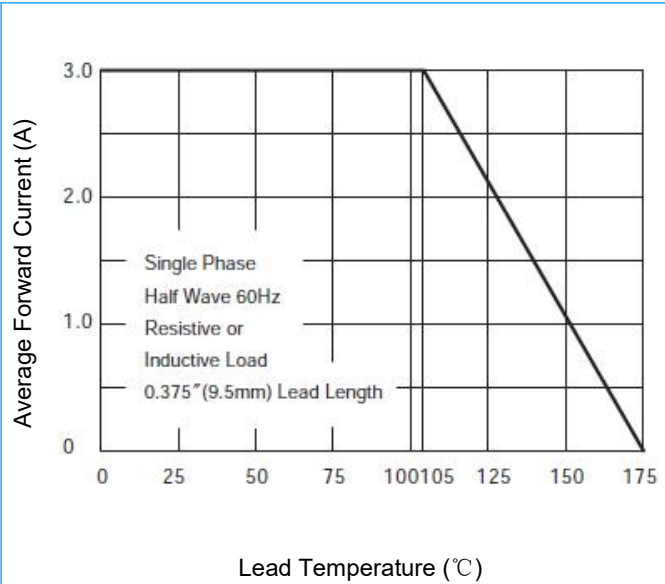
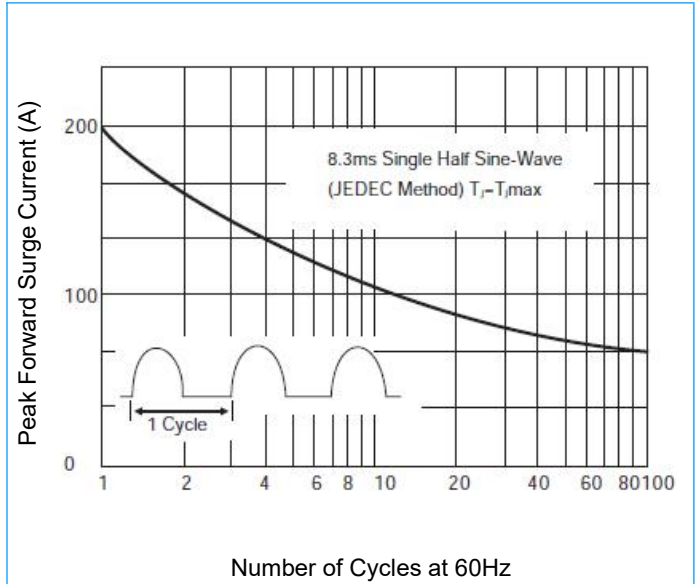
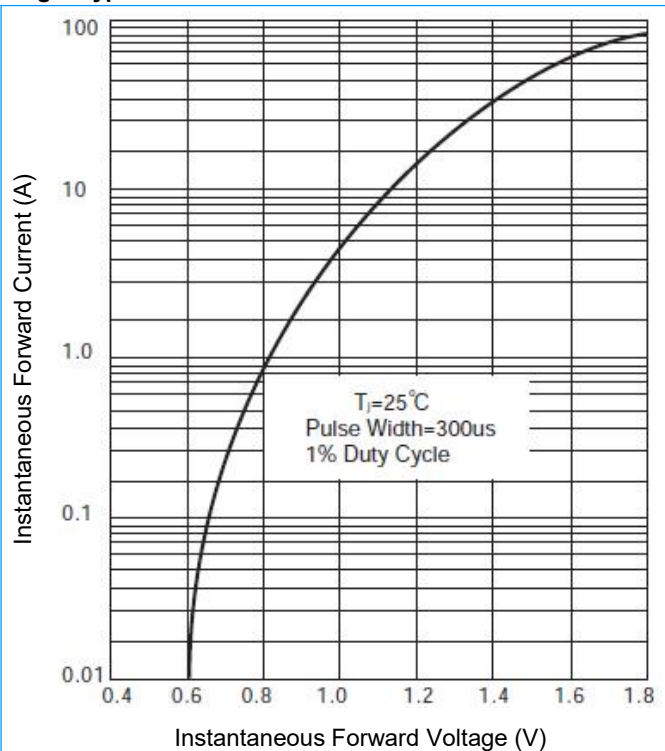
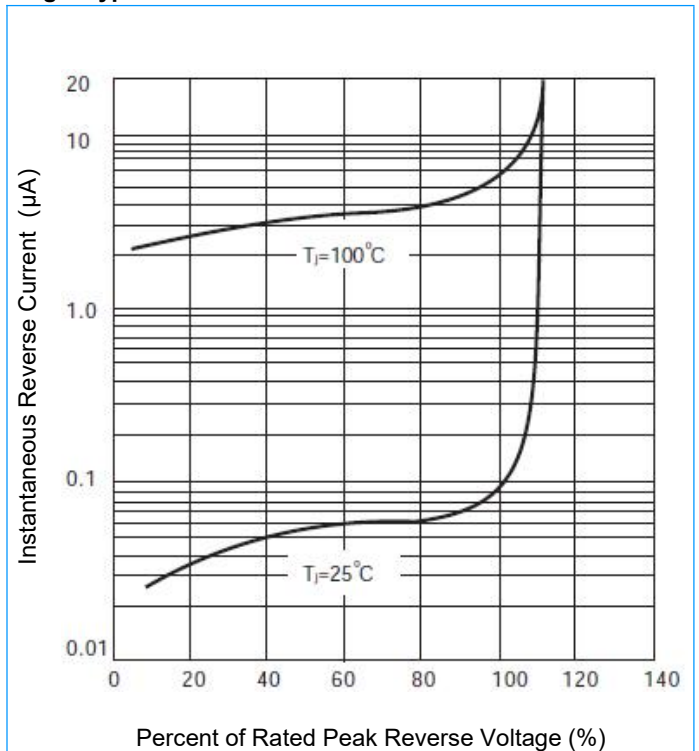
1.Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

2.Thermal Resistance from Junction to Ambient at 0.5 (12.5mm) lead length,P.C.board mounted with 0.8" X0.8" (20.0X20.0mm)copper heatsink.

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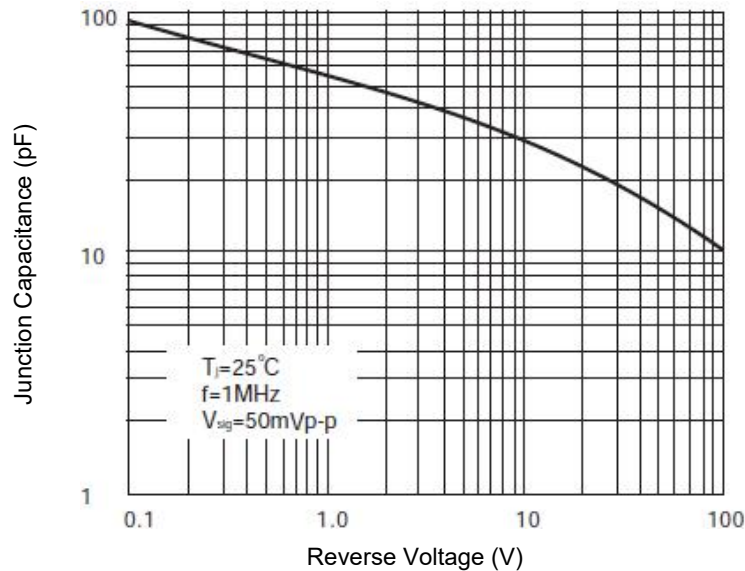
Characteristic Curves

Fig1. Typical Forward Current Derating Curve

Fig2. Maximum Non-Repetitive Peak Forward Surge Current

Fig3. Typical Instantaneous Forward Characteristics

Fig4. Typical Reverse Characteristics


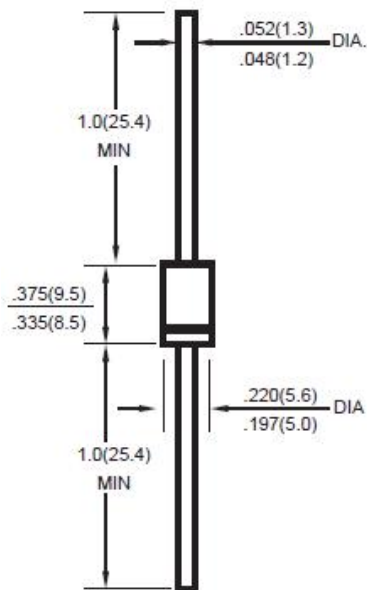
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Characteristic Curves (Continue)

Fig5. Typical Junction Capacitance


DO-27 Package Outline


Dimensions in inches and (millimeters)

Packaging Information

Part Number	Component Package	Quantity
1N5400~1N5408	DO-27	1250 PCS