

Standard Diode



RoHS
Compliant



Features:

- Glass passivated chip junction
- High efficiency, Low V_F
- High current capability
- High reliability
- High surge current capability
- Low power loss

Specifications:

Mechanical Data:

Cases	: Moulded plastic
Lead	: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
Polarity	: Colour band denotes cathode
High temperature soldering guaranteed	: 260°C/10 seconds/0.375", (9.5mm) lead lengths at 5lbs., (2.3kg) tension
Weight	: 1.2g

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Type Number	Symbol	1N5402G	1N5406G	1N5408G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	600	1,000	
Maximum RMS Voltage	V_{RMS}	140	420	700	V
Maximum DC Blocking Voltage	V_{DC}	200	600	1,000	
Maximum Average Forward Rectified Current 0.375 inch (9.5mm) Lead Length at $T_A = 60^\circ\text{C}$	$I_{(AV)}$	3			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	125			
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1			V

Standard Diode

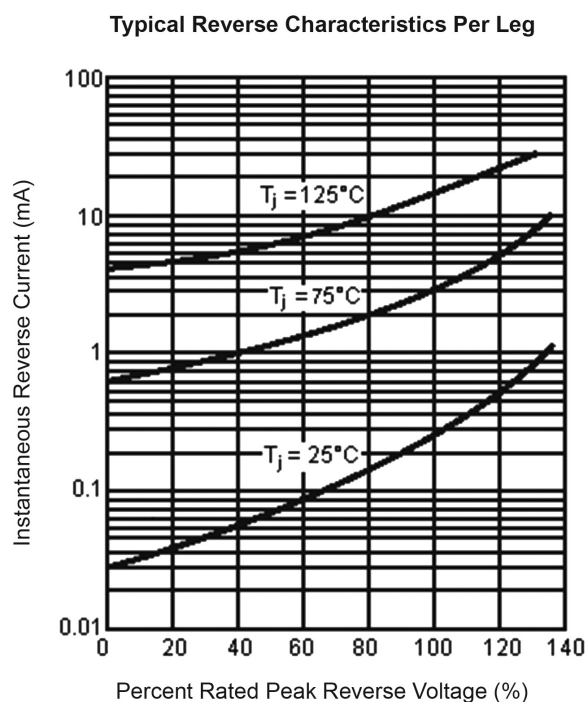
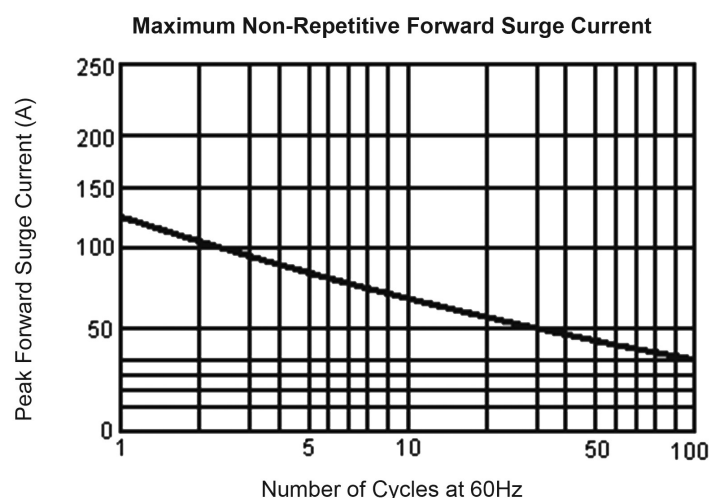
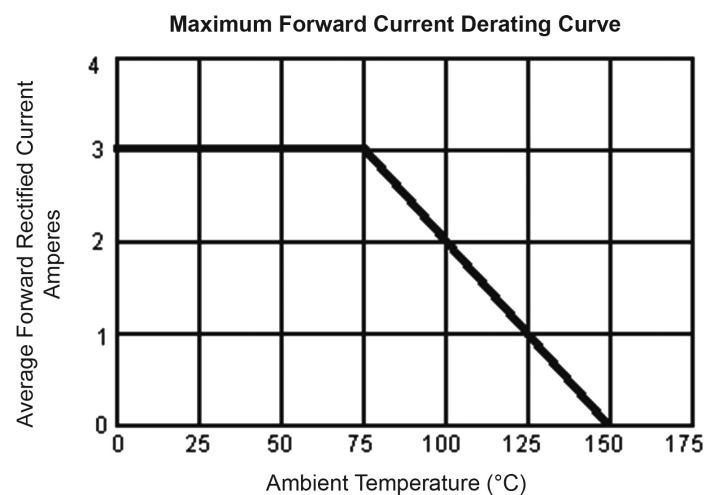


Type Number	Symbol	1N5402G	1N5406G	1N5408G	Units
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	I_R	5 100		μA μA	
Typical Junction Capacitance (Note 1)	C_j	25			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	45			$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150			$^\circ\text{C}$

Notes 1: Measured at 1MHz and Applied Reverse Voltage of 4V DC.

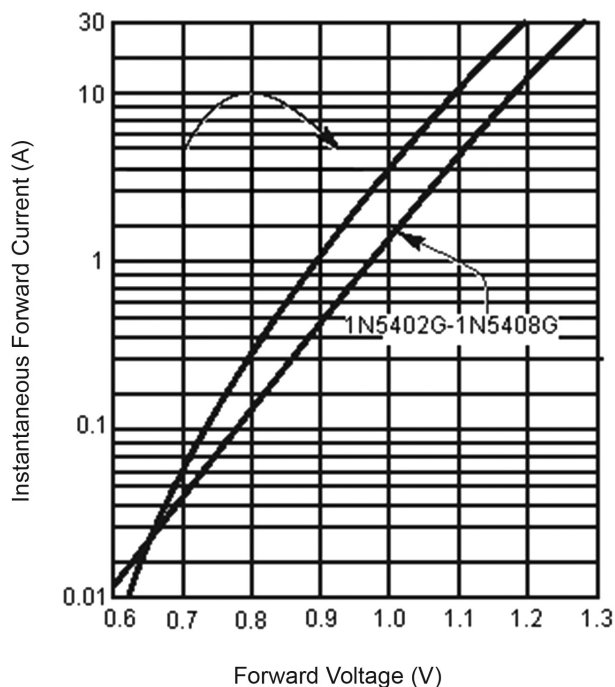
Notes 2: Mount on Cu-Pad Size 16mm × 16mm on PCB.

Ratings and Characteristic Curves (1N5402G, 1N5406G and 1N5408G)

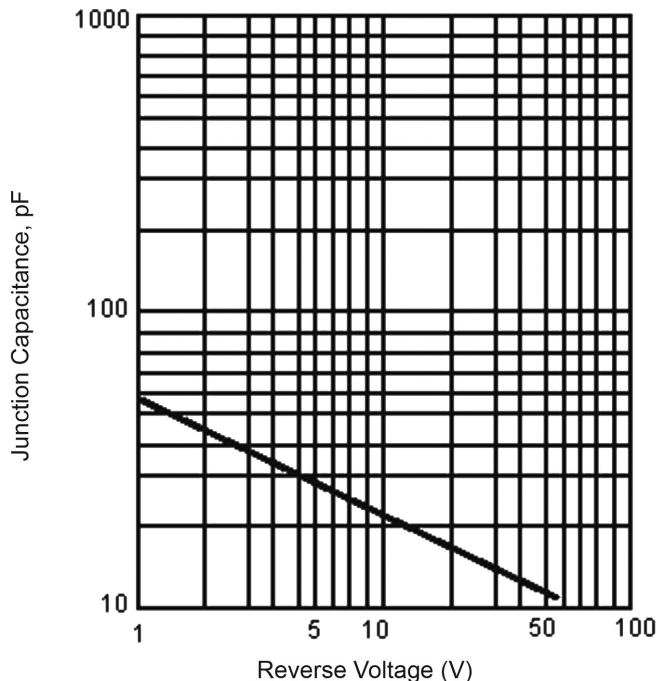


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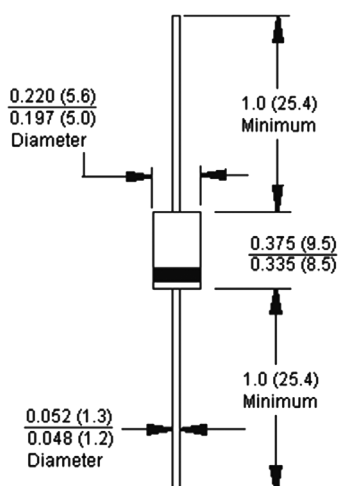
Typical Forward Voltage



Typical Junction Capacitance



DO-201AD



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, Standard, 3A, 200V	1N5402G
Diode, Standard, 3A, 600V	1N5406G
Diode, Standard, 3A, 1,000V	1N5408G

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