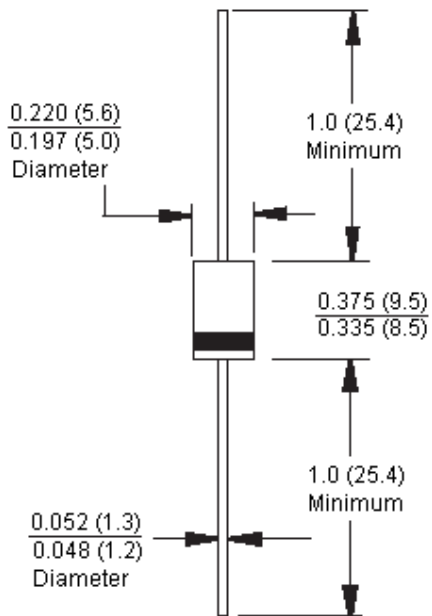




Features:

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

DO-201AD



Dimensions : Inches (Millimetres)

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 inch, (9.5mm) lead lengths at 5lbs., (2.3kg) tension.
Weight	: 1.2 grams.

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%.

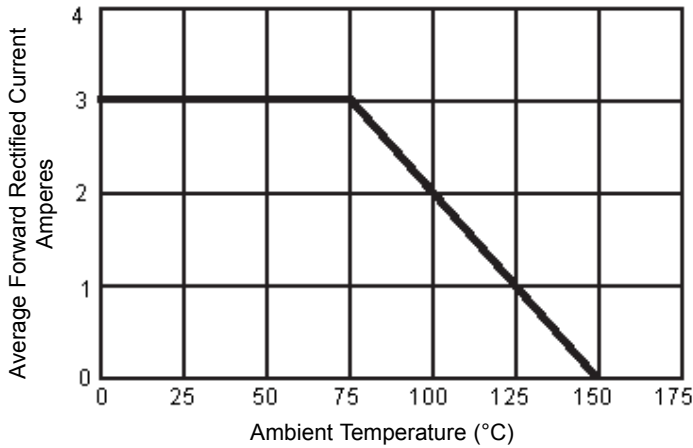
Type Number	Symbol	1N5402G	1N5406G	1N5408G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	600	1000	V
Maximum RMS Voltage	V_{RMS}	140	420	700	
Maximum DC Blocking Voltage	V_{DC}	200	600	1000	
Maximum Average Forward Rectified Current 0.375 inch (9.5mm) Lead Length at $T_A = 60^\circ\text{C}$	$I_{(AV)}$	3.0			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	1.0			v
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	5.0 100			μA μA
Typical Junction Capacitance (Note 1)	C_j	25			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	45			$^\circ\text{C}/\text{W}$
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 4.0 Volts DC.

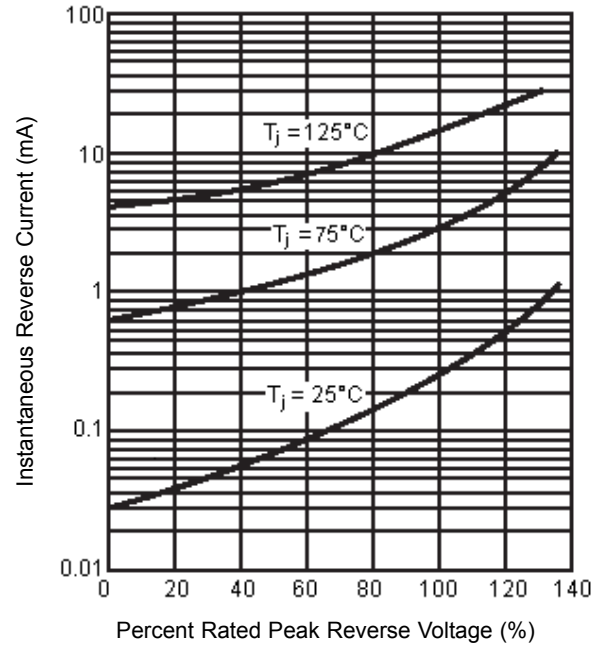
2. Mount on Cu-Pad Size 16mm x 16mm on PCB.

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

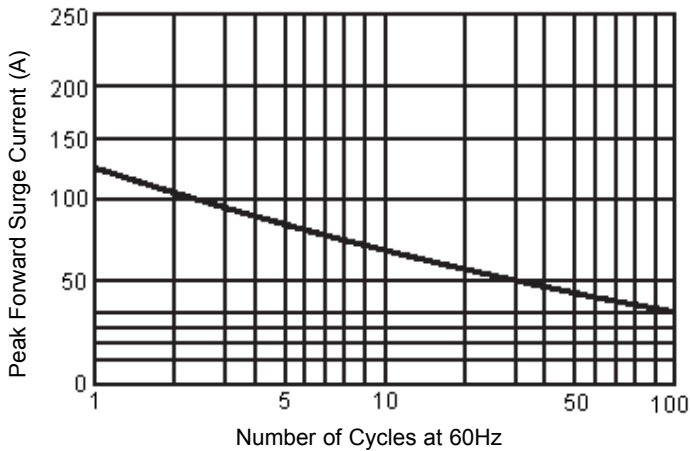
Maximum Forward Current Derating Curve



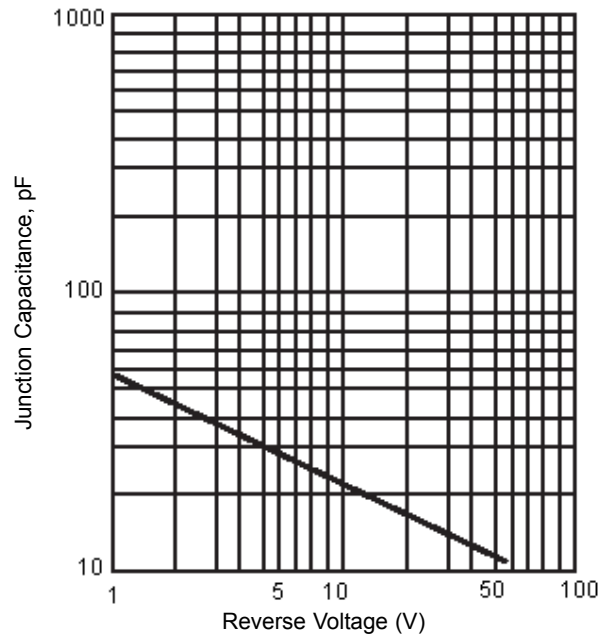
Typical Reverse Characteristics Per Leg

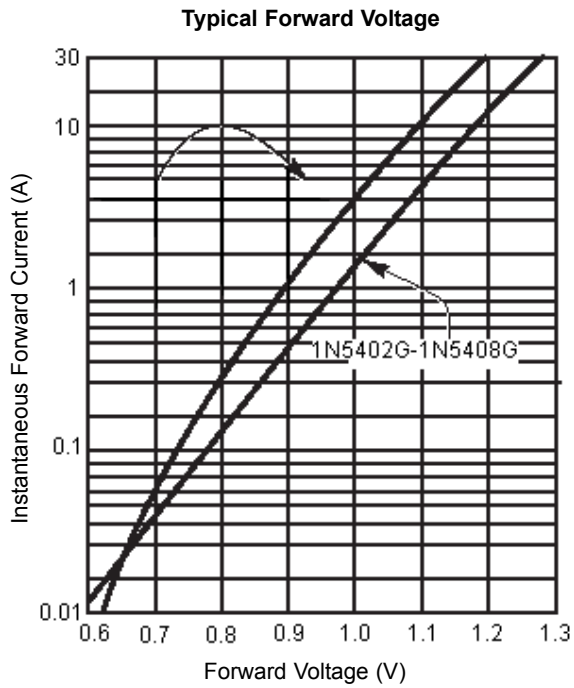


Maximum Non-Repetitive Forward Surge Current



Typical Junction Capacitance





Part Number Table

Description	Part Number
Diode, Standard, 3A, 200V	1N5402G
Diode, Standard, 3A, 600V	1N5406G
Diode, Standard, 3A, 1000V	1N5408G

1N54xG Series



Notes:

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