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**1N5400
THRU
1N5408**

Features

- Halogen free available upon request by adding suffix "-HF"
- Low Current Leakage and Low Forward Voltage
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant.)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 30 °C/W Junction To Lead

Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5400	1N5400	50V	35V	50V
1N5401	1N5401	100V	70V	100V
1N5402	1N5402	200V	140V	200V
1N5404	1N5404	400V	280V	400V
1N5405	1N5405	500V	350V	500V
1N5406	1N5406	600V	420V	600V
1N5407	1N5407	800V	560V	800V
1N5408	1N5408	1000V	700V	1000V

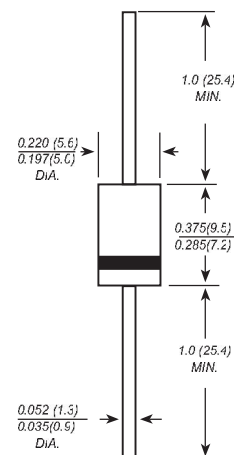
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	$T_a = 105^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Forward Voltage	V_F	1.0V	$I_F = 3.0\text{A};$ $T_a = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 μA 100 μA	$T_a = 25^\circ\text{C}$ $T_a = 150^\circ\text{C}$
Typical Junction Capacitance	C_J	40pF	Measured at 1.0MHz, $V_R = 4.0\text{V}$

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

**3 Amp Rectifier
50 - 1000 Volts**

DO-201AD

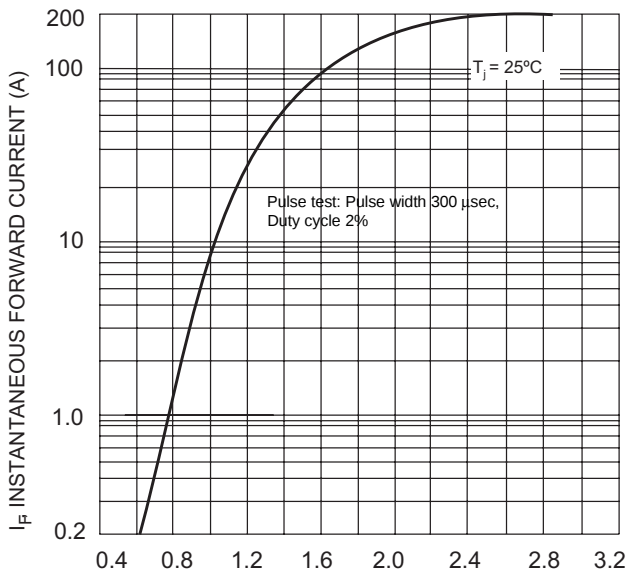


Dimensions in inches and (millimeters)



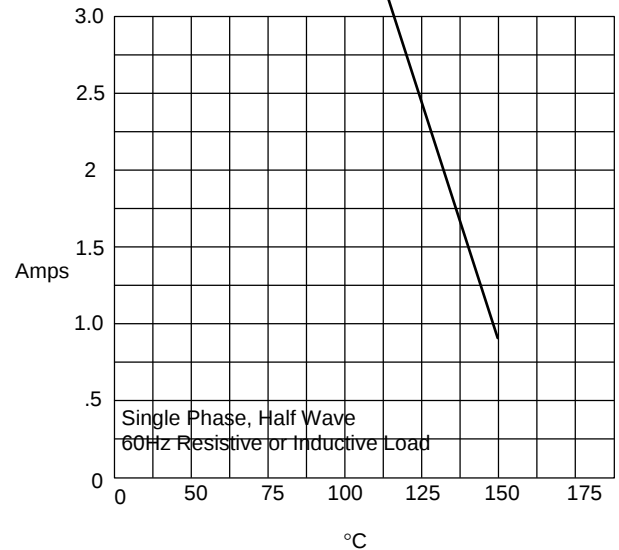
1N5400 thru 1N5408

Figure 1
Typical Forward Characteristics



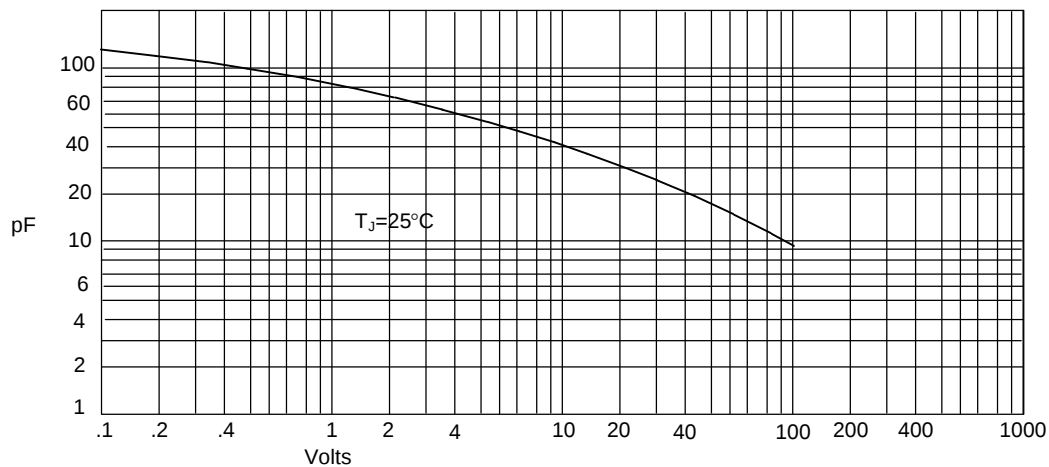
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - $^\circ\text{C}$

Figure 3
Junction Capacitance

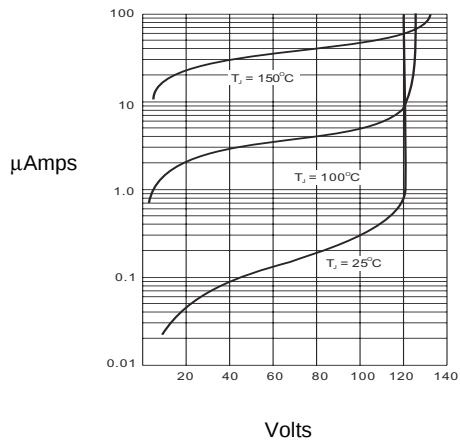


Junction Capacitance - pF versus
Reverse Voltage - Volts



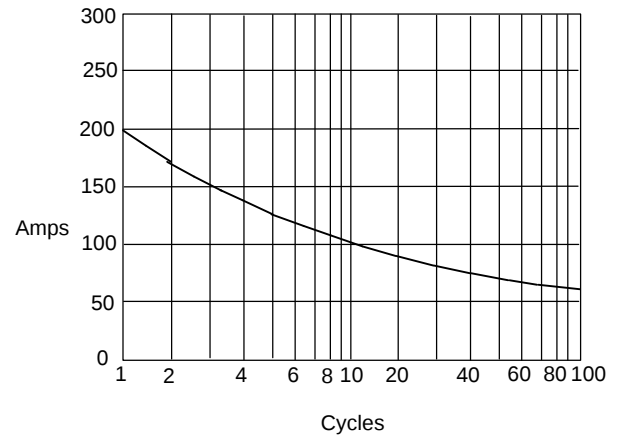
1N5400 thru 1N5408

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes ~~versus~~
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes ~~versus~~
Number Of Cycles At 60Hz - Cycles