

3A Standard Rectifier

Features

- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- High Reliability
- High Temperature Soldering Guaranteed 260°C/10 seconds
/.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliant



DO-201AD



Mechanical Data

Case:	DO-201AD Molded Plastic
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Polarity:	Cathode indicated by color band
Weight:	0.04 ounce, 1.12 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	1N5400	1N5401	1N5402	1N5403	1N5404	1N5405	1N5406	1N5407	1N5408	Unit
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	300	400	500	600	800	1000	V
VRMS	Maximum RMS Voltage	35	70	140	210	280	350	420	560	700	V
VDC	Maximum DC Blocking Voltage	50	100	200	300	400	500	600	800	1000	V
IF(AV)	Maximum Average Forward Rectified Current @ $T_a=75^{\circ}C$	3.0									A
IFSM	Peak Forward Surge Current (Note1)	200									A
TJ	Operating Junction Temperature Range	-55 to +150									$^{\circ}C$
TSTG	Storage Temperature Range	-55 to +150									$^{\circ}C$

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1N5400 - 1N5408

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	1N5400	1N5401	1N5402	1N5403	1N5404	1N5405	1N5406	1N5407	1N5408	Unit
V_F	Maximum Forward Voltage @ $I_F=3.0A$	1.0									V
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}C$									μA
		$T_A=100^{\circ}C$									μA
C_J	Typical Junction Capacitance (Note2)	30									pF
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	20									$^{\circ}C/W$

- Note:**
1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method)
 2. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
 3. Thermal resistance from junction to ambient at .375" (9.5mm) lead length.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

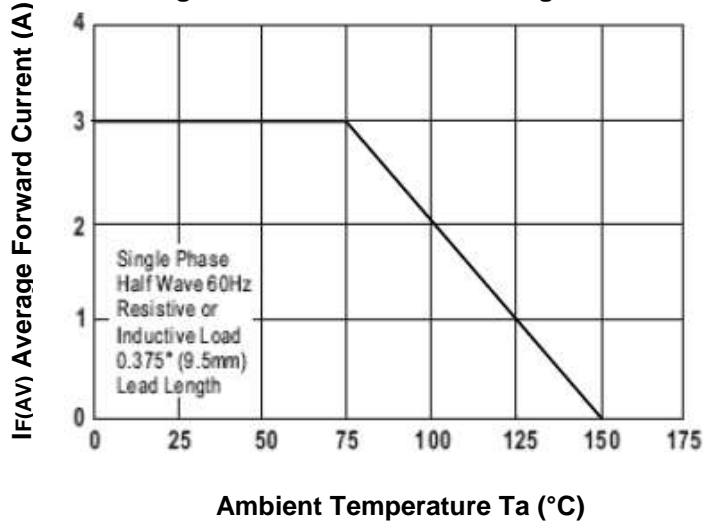


Fig.2-Max. Non-Repetitive Forward Surge Current

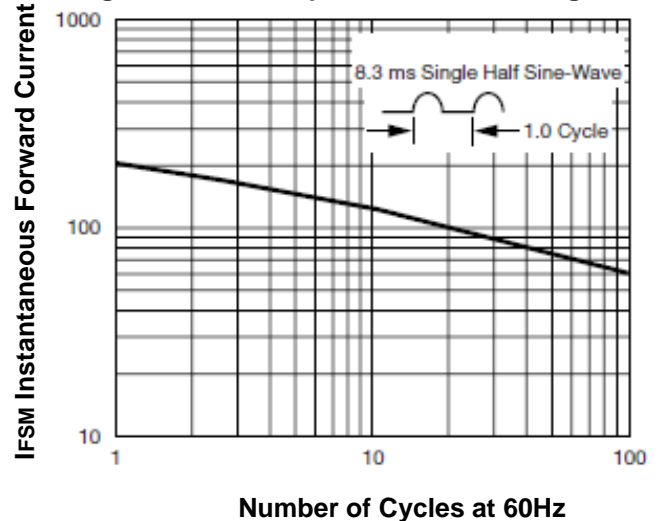


Fig.3-Typical Instantaneous Forward Characteristics

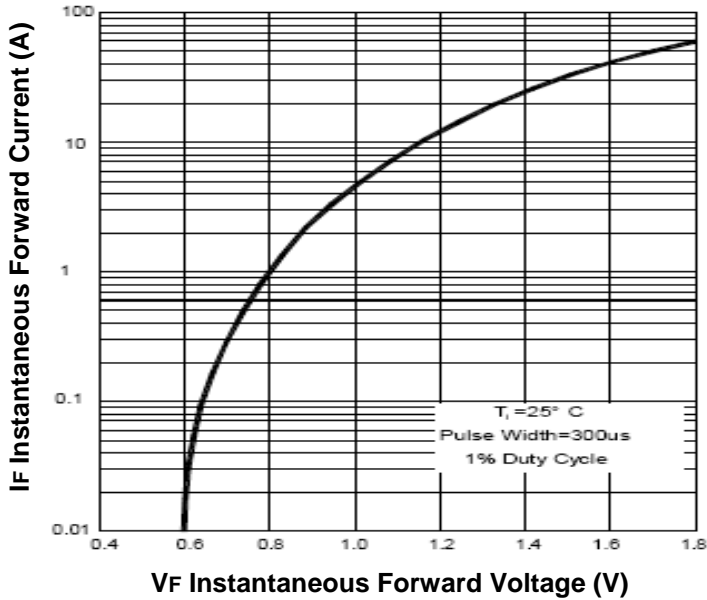


Fig.4- Typical Reverse Characteristics

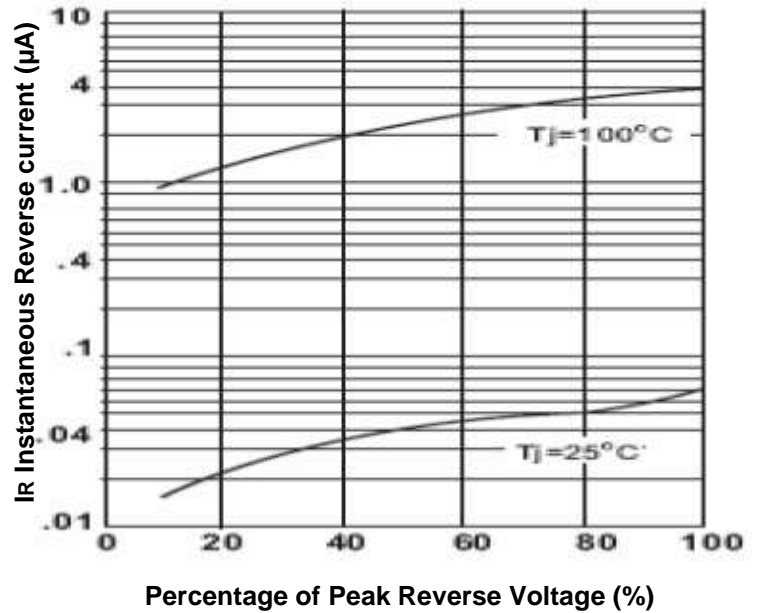
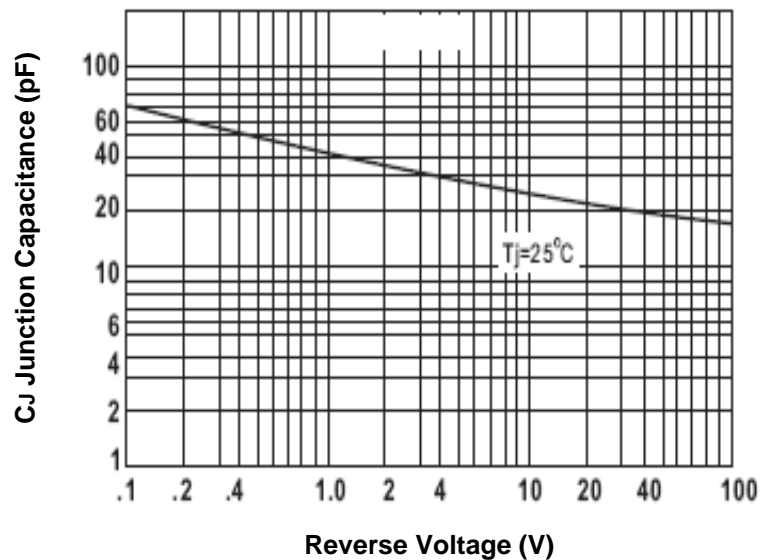
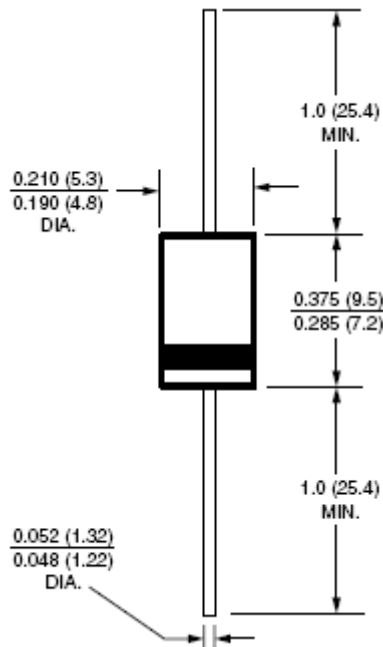


Fig.5-Typical Junction Capacitance



Dimensions in inches (mm)



DO-201AD

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