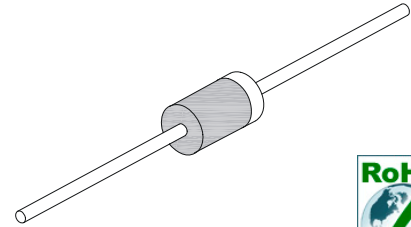


3.0A Standard Rectifier

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:	Molded Plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Polarity:	Cathode indicated by color band
Weight:	0.042 Ounce, 1.2 gram

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

Symbol	Description	1N5400	1N5401	1N5402	1N5403	1N5404	1N5405	1N5406	1N5407	1N5408	Unit
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	300	400	400	600	800	1000	V
V_{RMS}	Maximum RMS Voltage	35	70	140	210	280	280	420	560	700	V
V_{DC}	Maximum DC Blocking Voltage	50	100	200	300	400	400	600	800	1000	V
I_{O(AV)}	Maximum Average Forward Rectified Current @T _a =75° C	3.0									A
I_{FSM}	Peak Forward Surge Current (Note1)	200									A
T_J	Operating Junction Temperature Range	-55 to +125									°C
T_{STG}	Storage Temperature Range	-55 to +150									°C

3.0A Standard Rectifier

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	$T_A=25^{\circ}C$					5.0				μA
		$T_A=100^{\circ}C$					50				μA
C_J	Typical Junction Capacitance (Note2)	30									pf
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	20									$^{\circ}C/W$

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

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

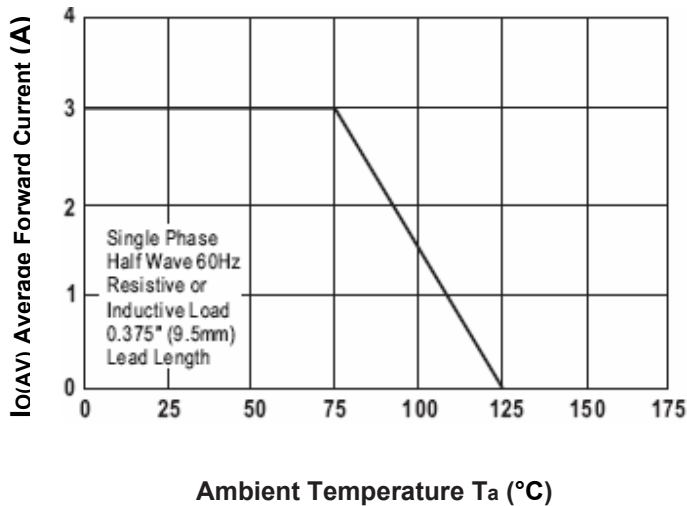
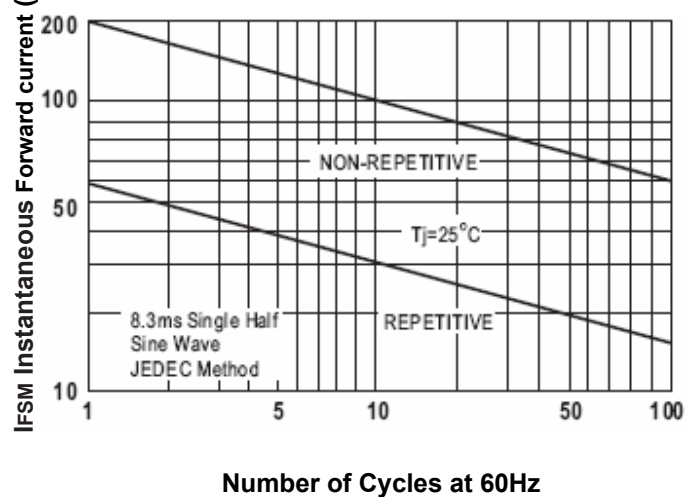


Fig.2- Max. Non-Repetitive Forward Surge Current



3.0A Standard Rectifier

1N5400 - 1N5408

Fig.3-Typical Instantaneous Forward Characteristics

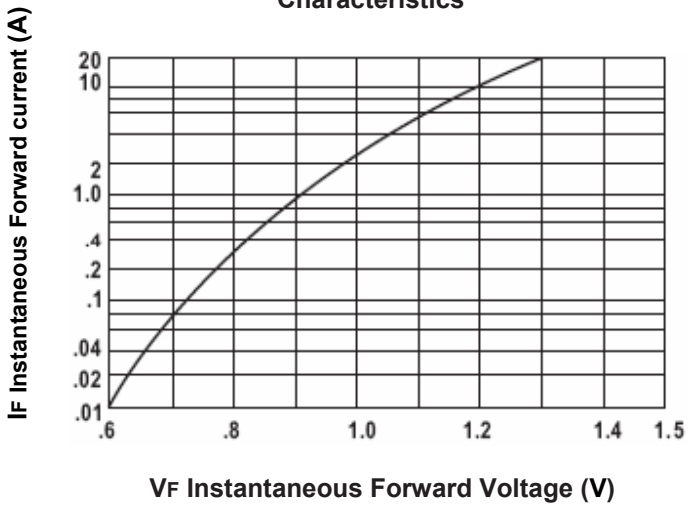


Fig.4- Typical Reverse Characteristics

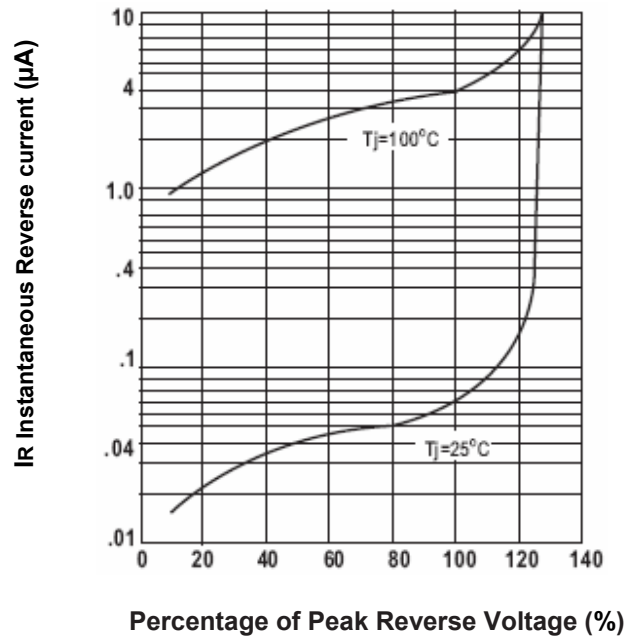
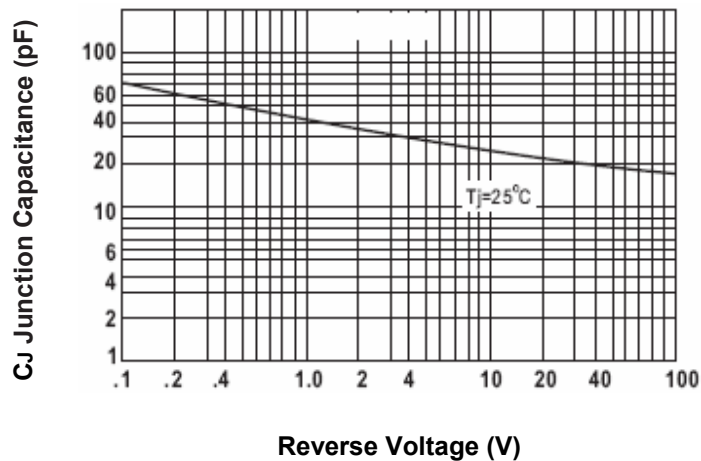


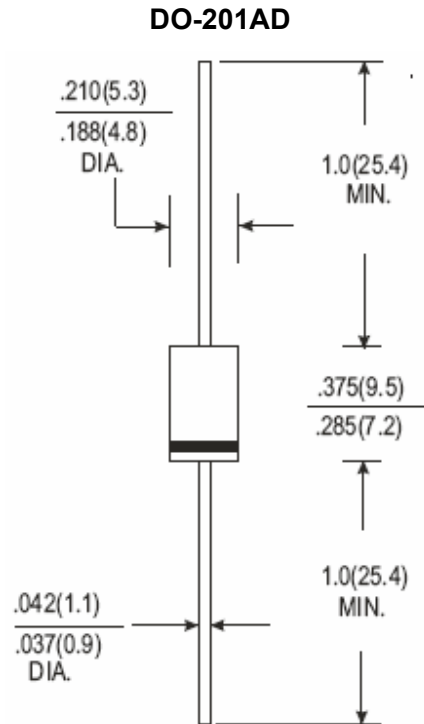
Fig.5-Typical junction capacitance



3.0A Standard Rectifier

1N5400 - 1N5408

Dimensions in inches (mm)



3.0A Standard Rectifier

1N5400 - 1N5408

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