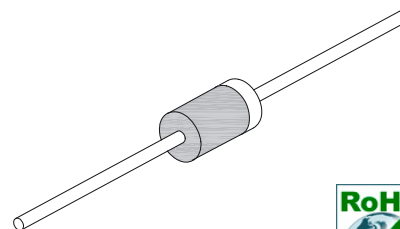


3.0A Glass Passivated Rectifier

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

Symbol	Description	T3A05G	T3A10G	T3A20G	T3A40G	T3A60G	T3A80G	T3A100G	Unit
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
I_{O(AV)}	Maximum Average Forward Rectified Current @Ta=75° C	3.0							A
I_{FSM}	Peak Forward Surge Current (Note1)	125							A
T_J	Operating Junction Temperature Range	-55 to +150							° C
T_{STG}	Storage Temperature Range	-55 to +175							° C

3.0A Glass Passivated Rectifier

T3A05G - T3A100G

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

Symbol	Description	T3A05G	T3A10G	T3A20G	T3A40G	T3A60G	T3A80G	T3A100G	Unit
V_F	Maximum Forward Voltage @ $I_F=3.0\text{A}$	1.1							V
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}\text{C}$ 5.0							μA
		$T_A=100^{\circ}\text{C}$ 100							μA
C_J	Typical Junction Capacitance (Note2)	40							pf
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	15							$^{\circ}\text{C/W}$

- 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

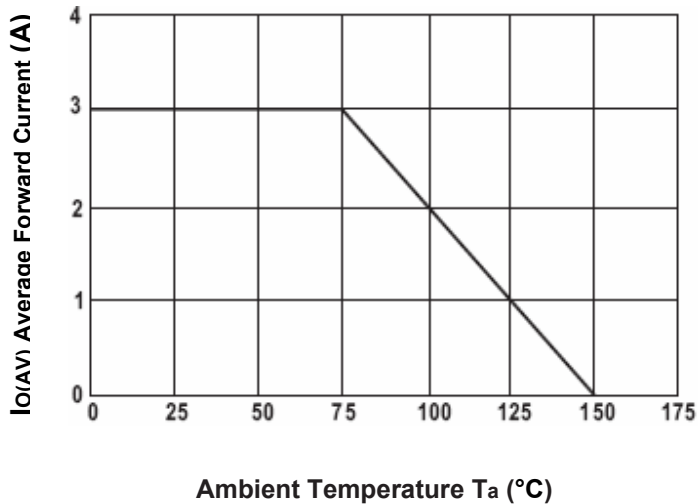
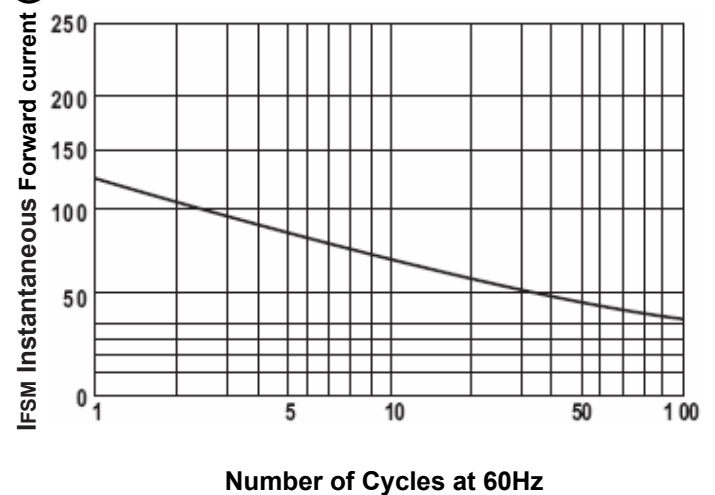


Fig.2-Max. Non-Repetitive Forward Surge Current



3.0A Glass Passivated Rectifier

T3A05G - T3A100G

Fig.3-Typical Instantaneous Forward Characteristics

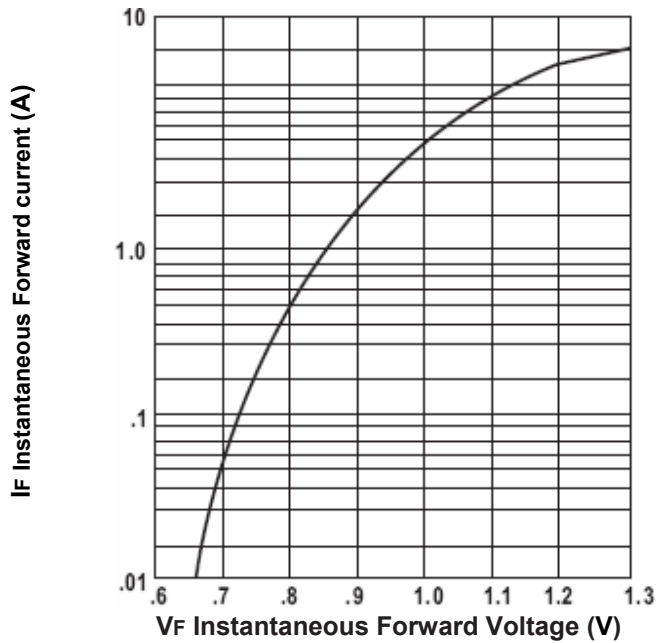


Fig.4- Typical Reverse Characteristics

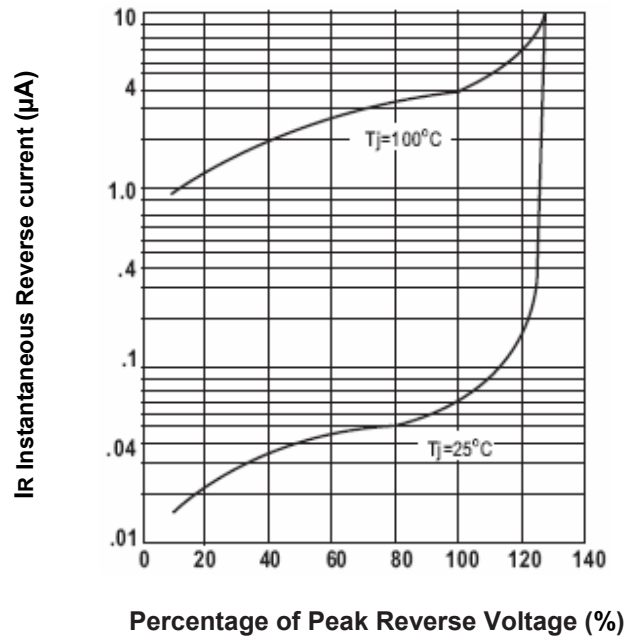
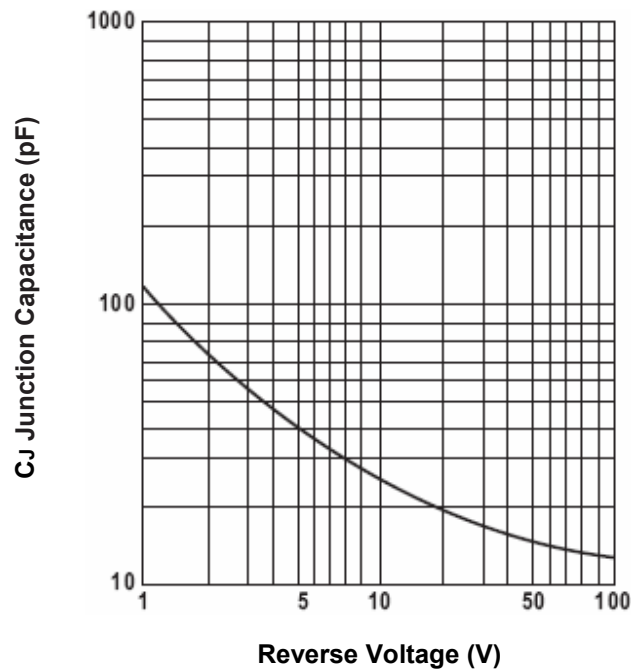


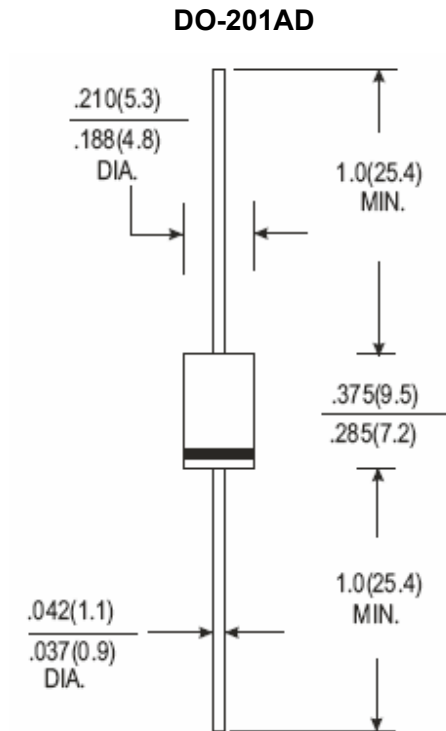
Fig.5-Typical junction capacitance



3.0A Glass Passivated Rectifier

T3A05G - T3A100G

Dimensions in inches (mm)



3.0A Glass Passivated Rectifier

T3A05G - T3A100G

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