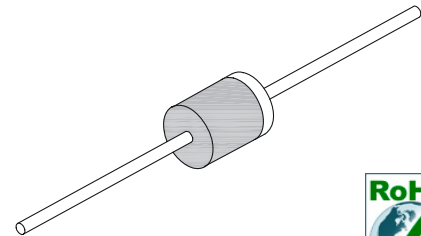


## 6.0A Glass Passivated Rectifier

### 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



**T6**



### Mechanical Data

<b>Case:</b>	Molded Plastic
<b>Epoxy:</b>	Meets UL 94V-0 flammability rating
<b>Terminals:</b>	Axial leads, solderable per MIL-STD-202E, Method 208C
<b>Polarity:</b>	Cathode indicated by color band
<b>Weight:</b>	0.06 ounce, 1.7grams

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

Symbol	Description	T6A05G	T6A10G	T6A20G	T6A40G	T6A60G	T6A80G	T6A100G	Unit
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V
<b>VRMS</b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V
<b>VDC</b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
<b>IO(AV)</b>	Maximum Average Forward Rectified Current @Ta=60° C	6.0							A
<b>IFSM</b>	Peak Forward Surge Current (Note1)	250							A
<b>TJ</b>	Operating Junction Temperature Range	-55 to +150							° C
<b>TSTG</b>	Storage Temperature Range	-55 to +175							° C

# 6.0A Glass Passivated Rectifier

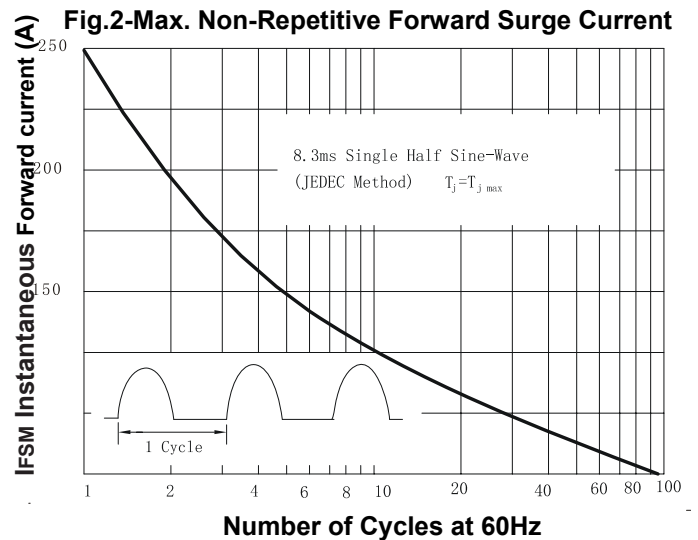
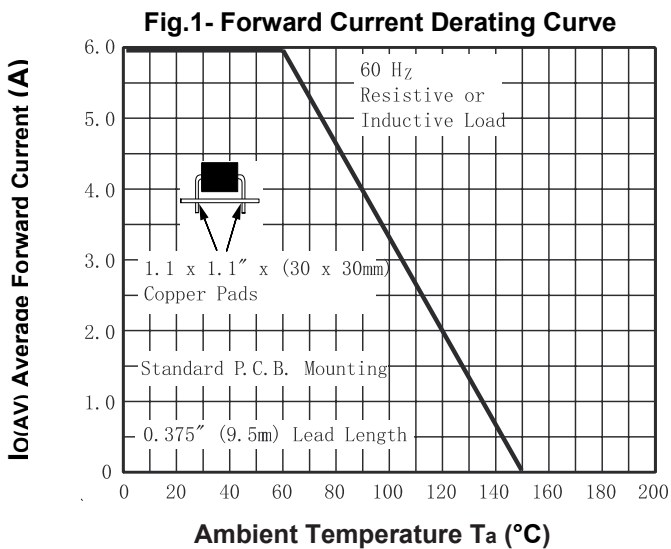
## T6A05G - T6A100G

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

Symbol	Description	T6A05G	T6A10G	T6A20G	T6A40G	T6A60G	T6A80G	T6A100G	Unit
$V_F$	Maximum Forward Voltage @ $I_F=6.0A$	1.1							V
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}C$			10.0				$\mu A$
		$T_A=100^{\circ}C$			500				$\mu A$
$C_J$	Typical Junction Capacitance (Note2)	100				pf			
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	10				$^{\circ}C/W$			

- 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



# 6.0A Glass Passivated Rectifier

## T6A05G - T6A100G

Fig.3-Typical Instantaneous Forward Characteristics

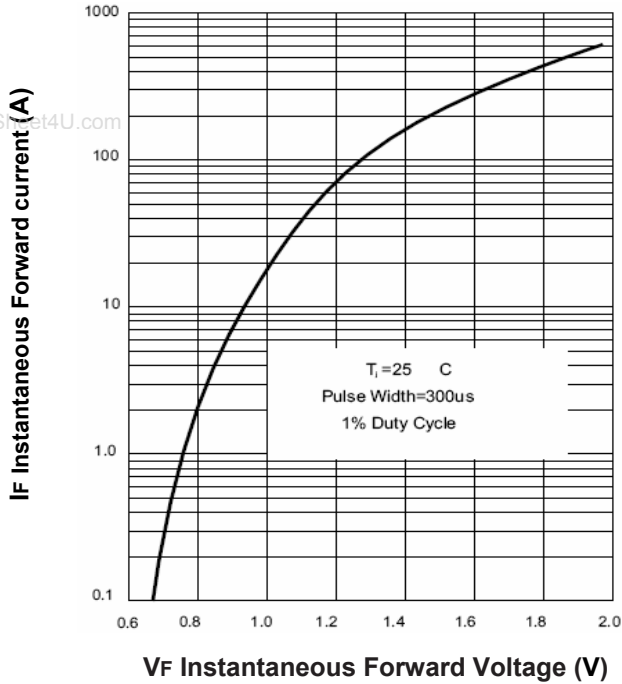


Fig.4- Typical Reverse Characteristics

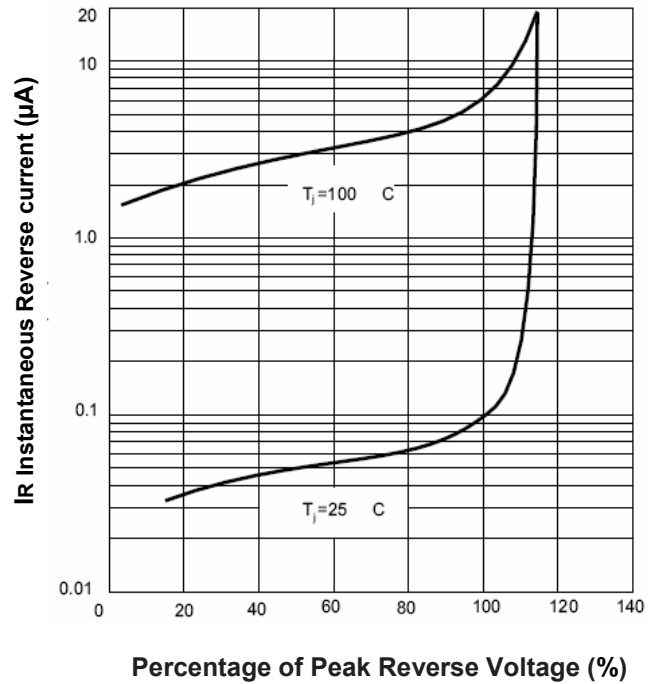
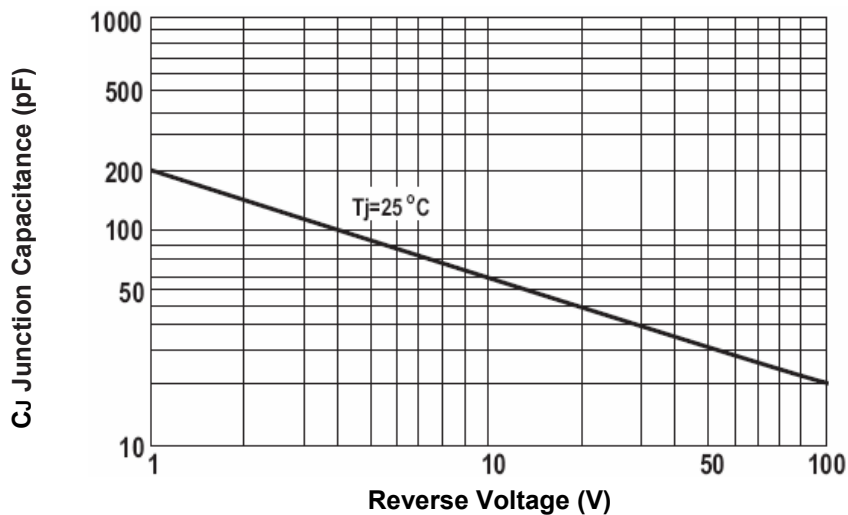


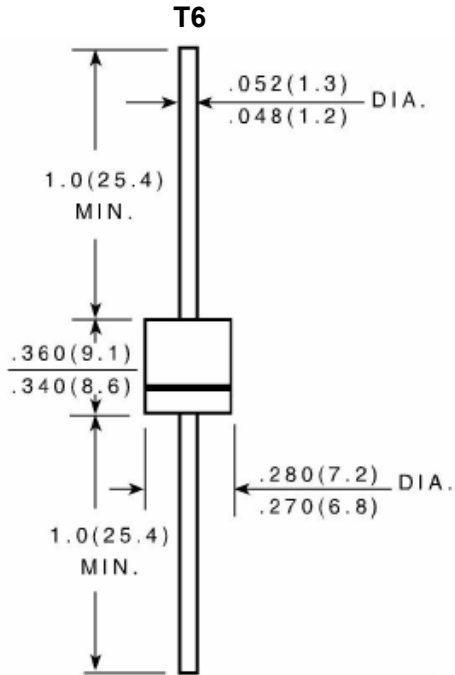
Fig.5-Typical junction capacitance



# 6.0A Glass Passivated Rectifier

## T6A05G - T6A100G

### Dimensions in inches (mm)



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## 6.0A Glass Passivated Rectifier

T6A05G - T6A100G

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