

## 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



T6L

### Mechanical Data

<b>Case:</b>	Molded Plastic, T6L
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Axial leads, solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Color band denotes cathode end
<b>Weight:</b>	0.07 ounce, 2.1 gram

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

Symbol	Description	T6A 05LG	T6A 10LG	T6A 20LG	T6A 40LG	T6A 60LG	T6A 80LG	T6A 100LG	Unit	Conditions
<b>VRRM</b>	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>VRMS</b>	Max. RMS Voltage	35	70	140	280	420	560	700	V	
<b>VDC</b>	Max. DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>IF(AV)</b>	Max. Average Forward Rectified Current	6.0							A	0.375" (9.5mm) lead length at $T_A=55^{\circ}C$
<b>IFSM</b>	Peak Forward Surge Current	300							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>VF</b>	Max. Instantaneous Forward Voltage	1.0							V	IF(AV)=6.0A,

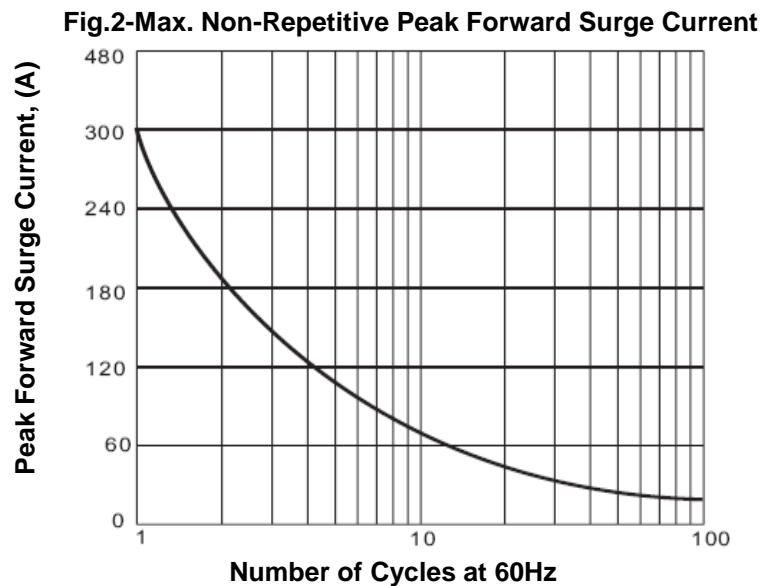
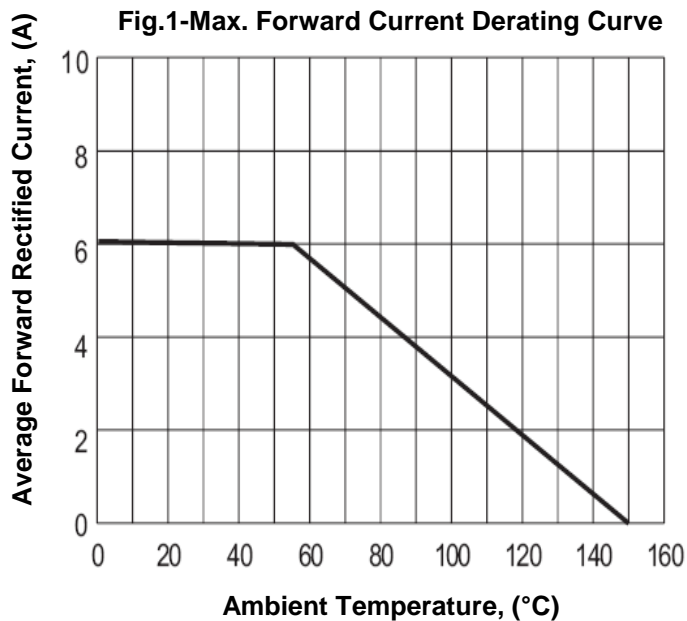
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## T6A05LG - T6A100LG

Symbol	Description	T6A 05LG	T6A 10LG	T6A 20LG	T6A 40LG	T6A 60LG	T6A 80LG	T6A 100LG	Unit	Conditions
IR	Max. DC Reverse Current at Rated DC Blocking Voltage	10							μA	T <sub>J</sub> =25°C
		300								T <sub>J</sub> =100°C
C <sub>J</sub>	Typical Junction Capacitance	150							pF	V <sub>R</sub> = 4V, f=1MHz
R <sub>thJA</sub>	Typical Thermal Resistance	20							°C / W	Note 1
R <sub>thJL</sub>		4.0								
T <sub>J</sub> , T <sub>STG</sub>	Operating Junction and Storage Temperature Range	-55 to +150							°C	

**Note:** 1. Thermal resistance from junction to ambient and from junction to lead length 0.375" (9.5mm) P.C.B. mounted with 1.1 x 1.1" (30 x 30mm) copper pads.

### Typical Characteristics Curves



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## T6A05LG - T6A100LG

Fig.3-Typical Instantaneous Forward Characteristics

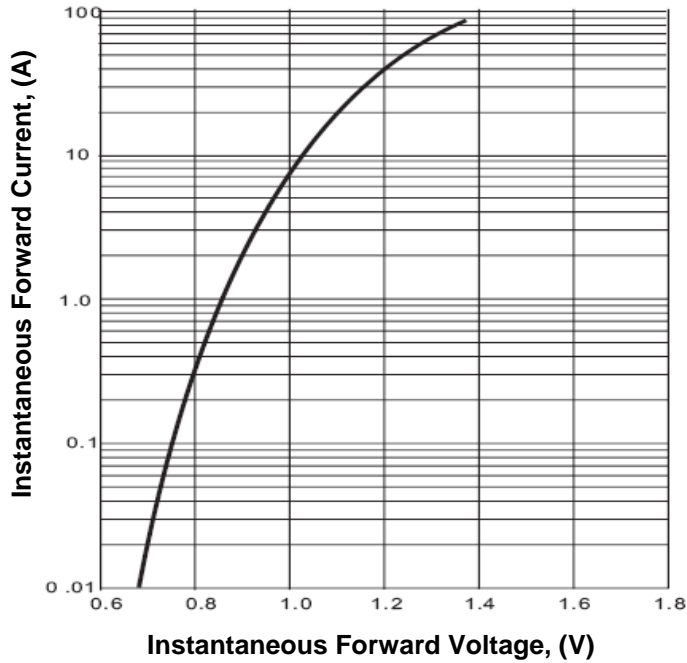
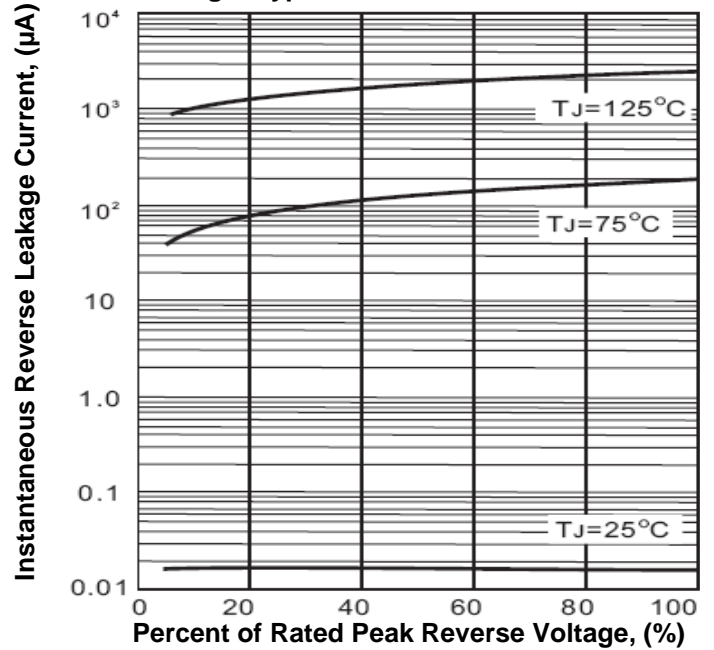
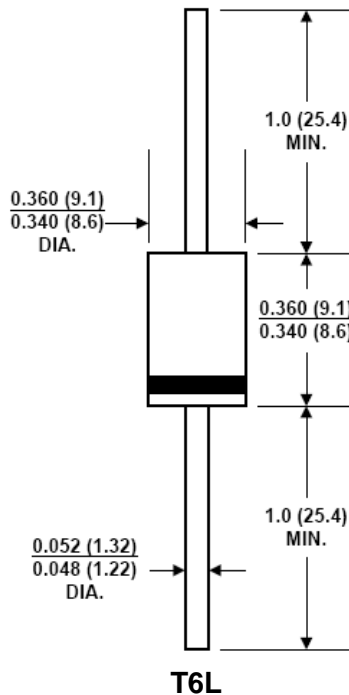


Fig.4-Typical Reverse Characteristics



### Dimensions in inches (mm)



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## T6A05LG - T6A100LG

### How to contact us

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