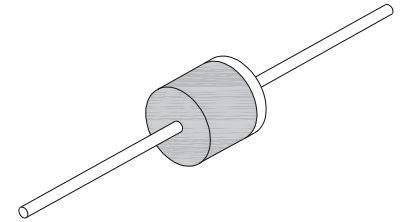


## 8.0A Standard Rectifier

### Features

- Low Forward Voltage Drop; Low Reverse Leakage
- 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



**T6L**

### 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-202, Method 208
<b>Polarity:</b>	Cathode indicated by color band
<b>Weight:</b>	0.07 ounce, 2.0 grams

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

Symbol	Description	T8A05L	T8A10L	T8A20L	T8A40L	T8A60L	T8A80L	T8A100L	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	8.0							A
<b>IFSM</b>	Peak Forward Surge Current (Note1)	400							A
<b>TJ</b>	Operating Junction Temperature Range	-65 to +150							° C
<b>TSTG</b>	Storage Temperature Range	-65 to +150							° C

# 8.0A Standard Rectifier

## T8A05L - T8A100L

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

Symbol	Description	T8A05L	T8A10L	T8A20L	T8A40L	T8A60L	T8A80L	T8A100L	Unit
$V_F$	Maximum Forward Voltage @ $I_F=8.0\text{A}$	1.00							V
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}\text{C}$			5.0				$\mu\text{A}$
		$T_A=100^{\circ}\text{C}$			50				
$C_J$	Typical Junction Capacitance (Note2)	100							pf
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	10							$^{\circ}\text{C/W}$

- 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

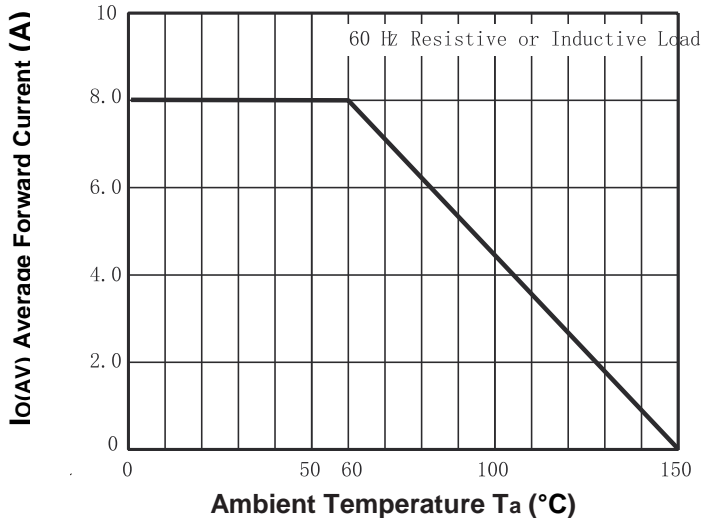
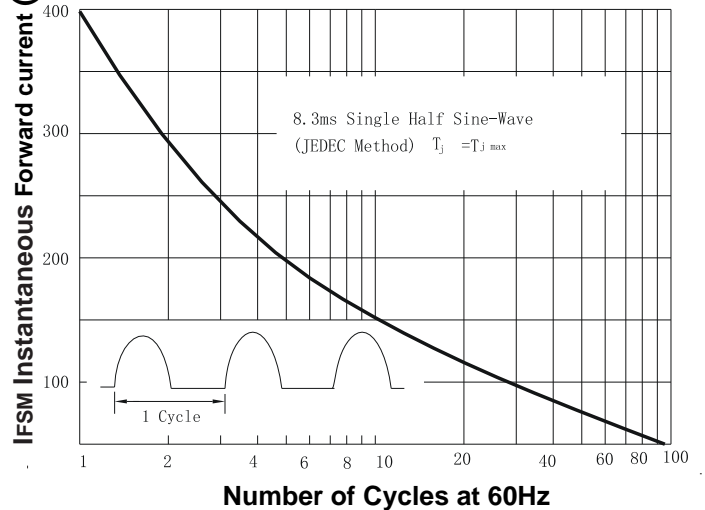


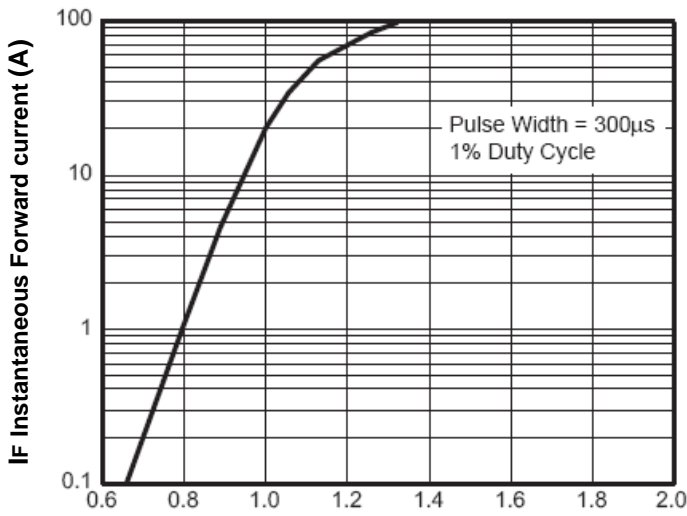
Fig.2- Max. Non-Repetitive Forward Surge Current



# 8.0A Standard Rectifier

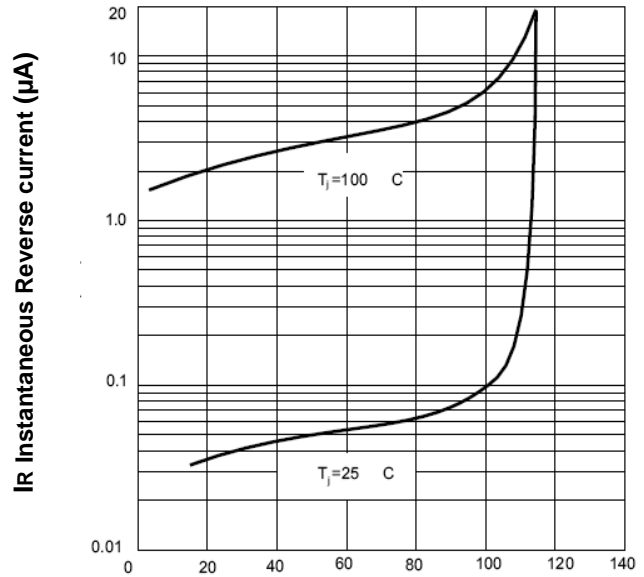
## T8A05L - T8A100L

Fig.3-Typical Instantaneous Forward Characteristics



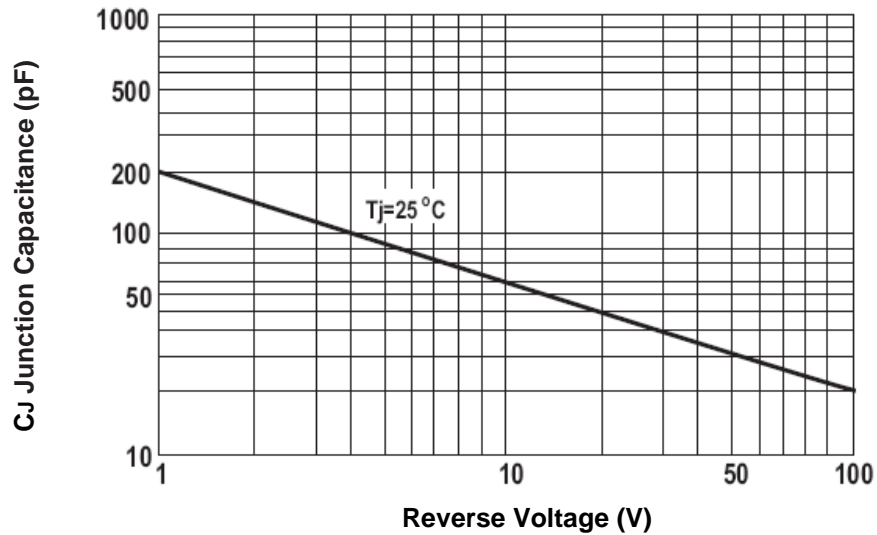
VF Instantaneous Forward Voltage (V)

Fig.4- Typical Reverse Characteristics



Percentage of Peak Reverse Voltage (%)

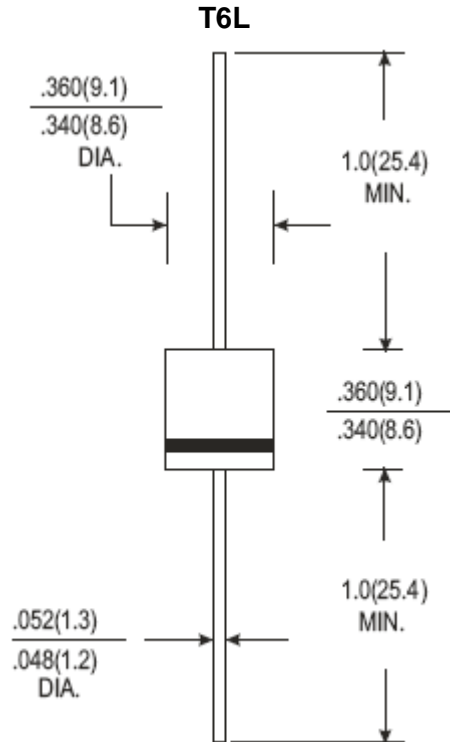
Fig.5-Typical junction capacitance



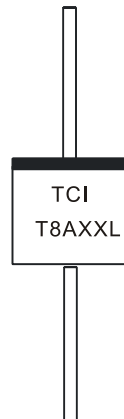
# 8.0A Standard Rectifier

## T8A05L - T8A100L

Dimensions in inches (mm)



Marking Information:



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