

## 10A Standard Rectifiers

### Features

- Low forward voltage drop
- High current capability
- High forward 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>	T6L, molded plastic
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Axial leads, solderable per MIL-STD-202G, Method 208
<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	T10A 05L	T10A 10L	T10A 20L	T10A 40L	T10A 60L	T10A 80L	T10A 100L	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current	10							A	T <sub>A</sub> =50°C
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	600							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range	-65 to +150							°C	

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## T10A05L - T10A100L

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

Symbol	Description	T10A 05L	T10A 10L	T10A 20L	T10A 40L	T10A 60L	T10A 80L	T10A 100L	Unit	Conditions
V <sub>F</sub>	Maximum Forward Voltage	1.0							V	I <sub>F</sub> =10A
I <sub>R</sub>	Maximum DC Reverse Current at Rated DC Blocking Voltage	10							μA	T <sub>A</sub> =25° C
		100								T <sub>A</sub> =100° C
C <sub>J</sub>	Typical Junction Capacitance	150				80			pF	V <sub>R</sub> =4V, f=1MHz
R <sub>θ-JA</sub>	Maximum Thermal Resistance Junction to Ambient	10							° C/W	

### Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

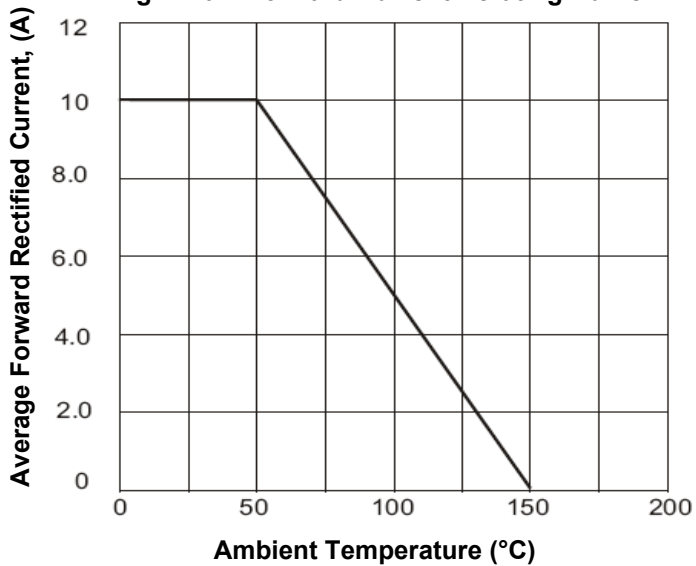
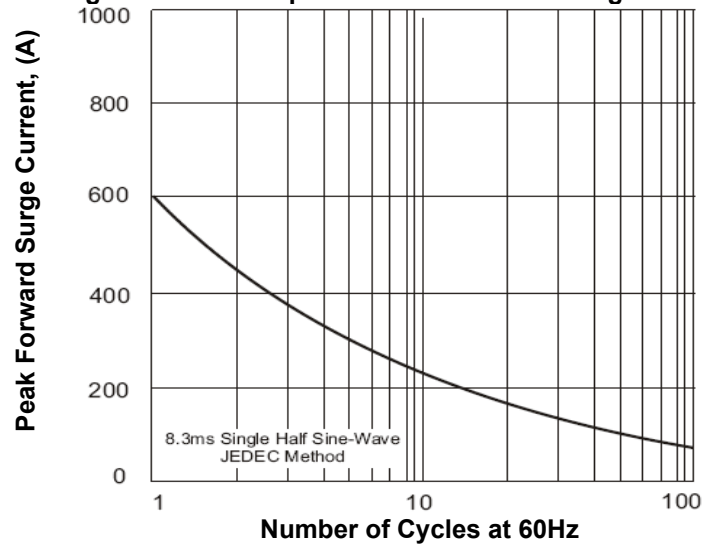


Fig.2-Max. Non-Repetitive Peak Forward Surge Current



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## T10A05L - T10A100L

Fig.3-Typical Instantaneous Forward Characteristics

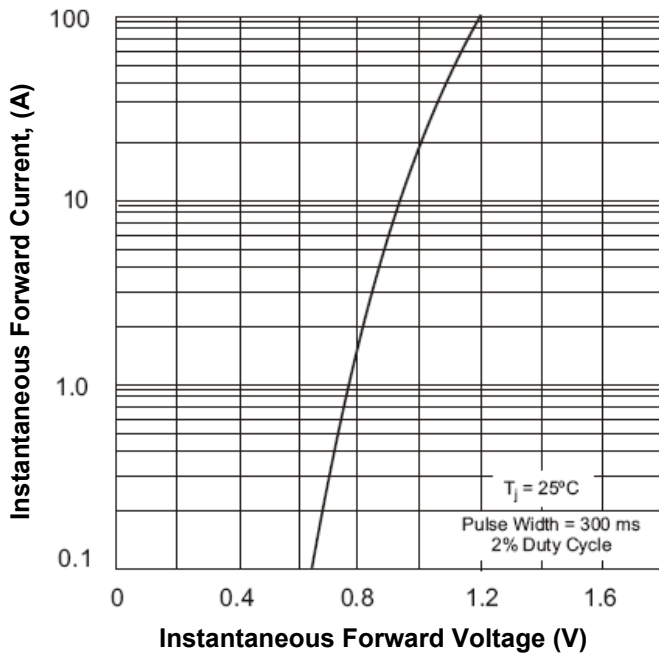
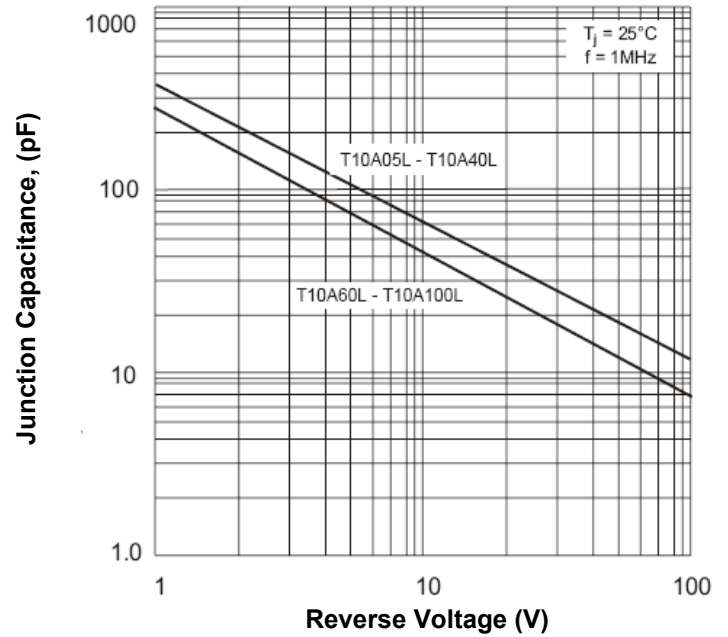


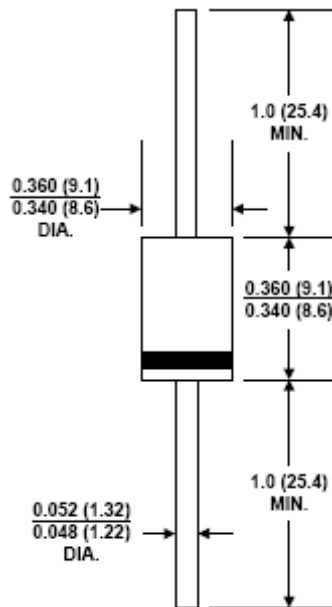
Fig.4- Typical Junction Capacitance



## 10A Standard Rectifiers

### T10A05L - T10A100L

#### Dimensions in inch (mm)



T6L

#### How to contact us

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