

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

Case:	T6L, molded plastic
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Axial leads, solderable per MIL-STD-202G, Method 208
Polarity:	Color band denotes cathode end
Weight:	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
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_{F(AV)}	Maximum Average Forward Rectified Current	10							A	TA=50°C
I_{FSM}	Peak Forward Surge Current	600							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-65 to +150							°C	

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

Symbol	Description	T10A 05L	T10A 10L	T10A 20L	T10A 40L	T10A 60L	T10A 80L	T10A 100L	Unit	Conditions
V_F	Maximum Forward Voltage	1.0							V	$I_F=10A$
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	10							μA	$T_A=25^{\circ}C$
		100								$T_A=100^{\circ}C$
C_J	Typical Junction Capacitance	150			80				pF	$V_R=4V, f=1MHz$
$R_{\theta-JA}$	Maximum Thermal Resistance Junction to Ambient	10							$^{\circ}C/W$	

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

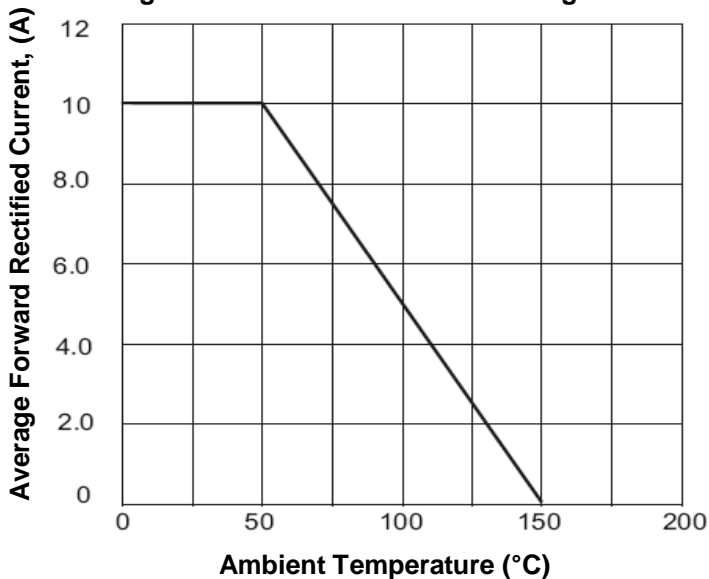
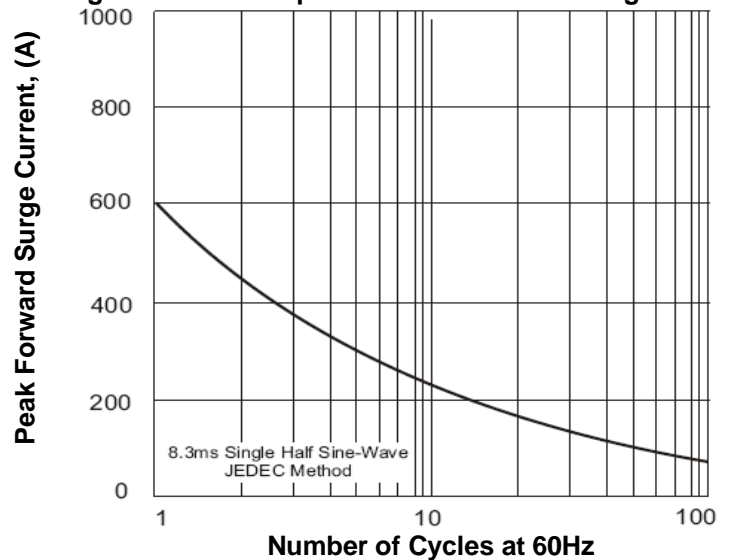


Fig.2-Max. Non-Repetitive Peak Forward Surge Current



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Fig.3-Typical Instantaneous Forward Characteristics

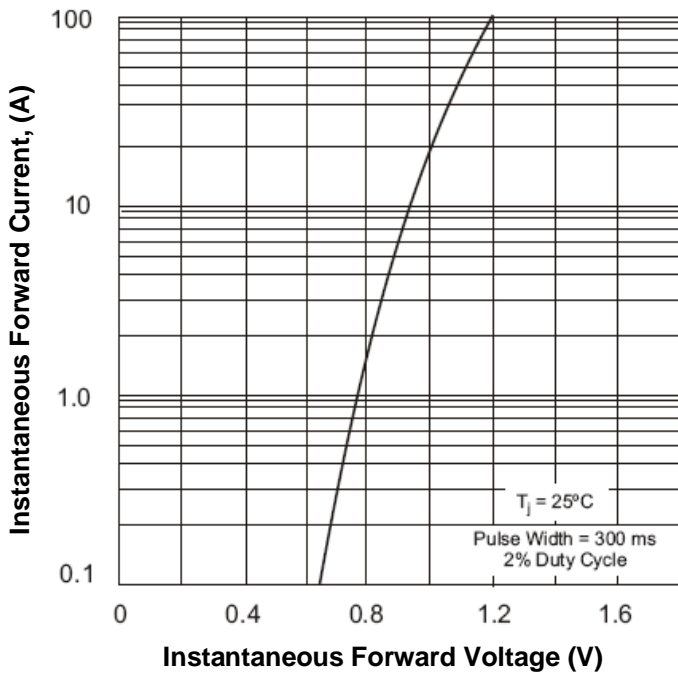
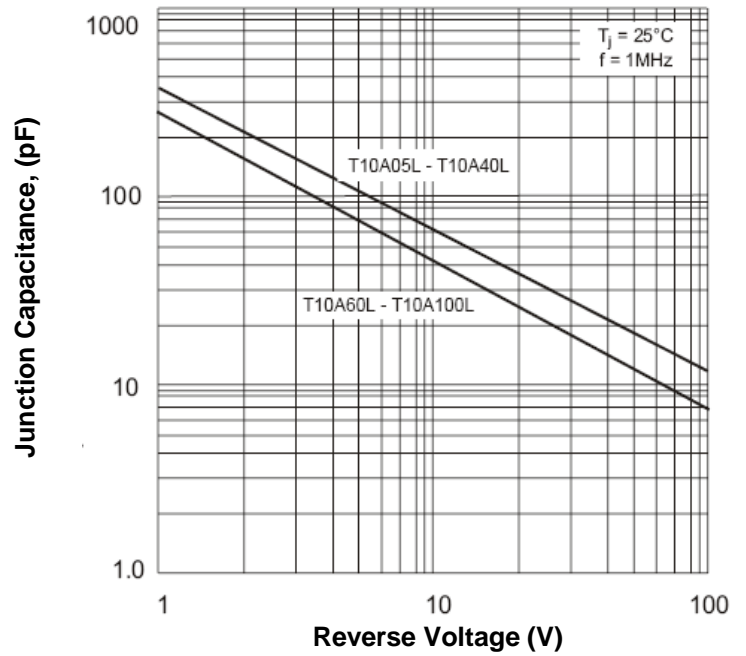


Fig.4- Typical Junction Capacitance



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