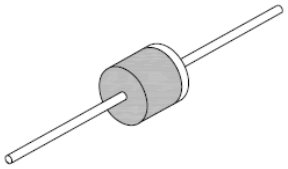
6.0A Glass Passivated Fast Recovery Rectifier

Features



T6L

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- High temperature soldering guaranteed 250°C/10 seconds /.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance

Mechanical Data

Case:	T6L (R-6), molded plastic
Epoxy:	UL 94V-0 rate flame retardant
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
Polarity:	Color band denotes cathode end
Weight:	2.1 grams

Maximum Ratings and Electrical Characteristics *(T_A=25ºC unless noted otherwise)*

Symbol	Description	TF 601LG	TF 602LG	TF 603LG	TF 604LG	TF 605LG	TF 606LG	TF 607LG	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_{AV}	Maximum Average Forward Rectified Current	6.0							A	Ta=55 ˚C
I_{FSM}	Peak Forward Surge Current	400							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

TF601LG – TF607LG

Symbol	Description	TF 601LG	TF 602LG	TF 603LG	TF 604LG	TF 605LG	TF 606LG	TF 607LG	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.3							V	I_F=6.0 A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	T_A=25° C
		100								T_A=100° C
T_{rr}	Typical Reverse Recovery Time	150				250	500		nS	I_F=0.5A, I_R=1A, I_{rr}=0.25A
C_J	Typical Junction Capacitance	100							pf	VR=4V, f=1MHz
T_J	Operating Temperature range	-55 to +150							° C	
T_{STG}	Storage Temperature Range	-55 to +150								

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

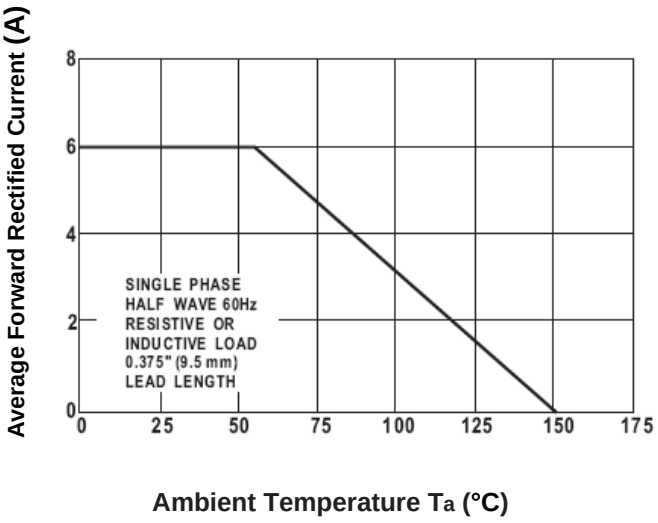


Fig.2-Max. Non-Repetitive Forward Surge Current

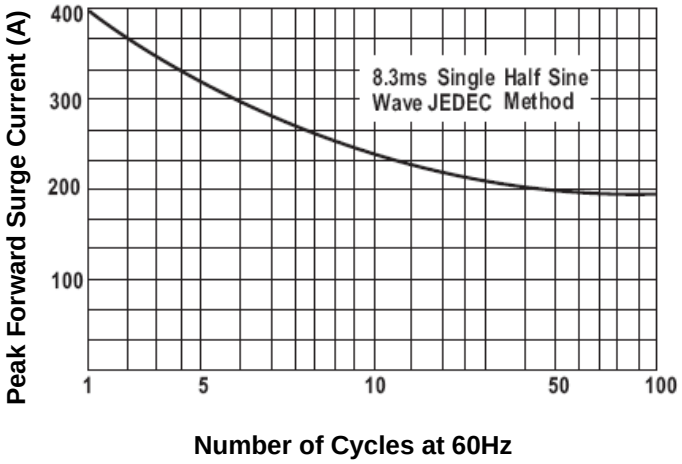


Fig.3- Typical Forward Characteristics

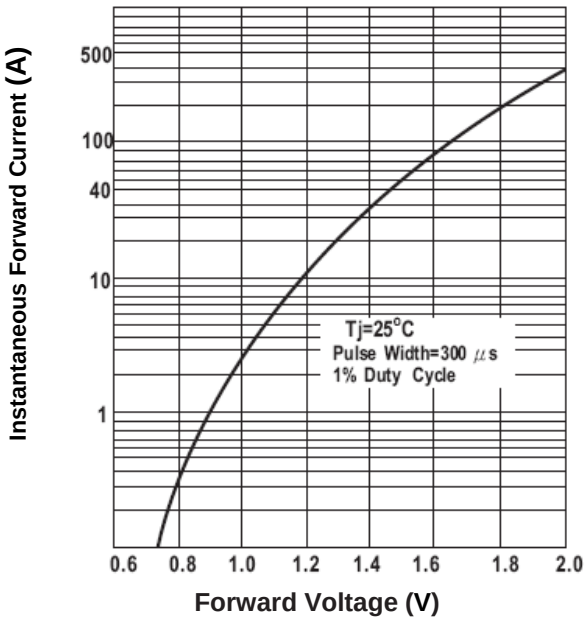
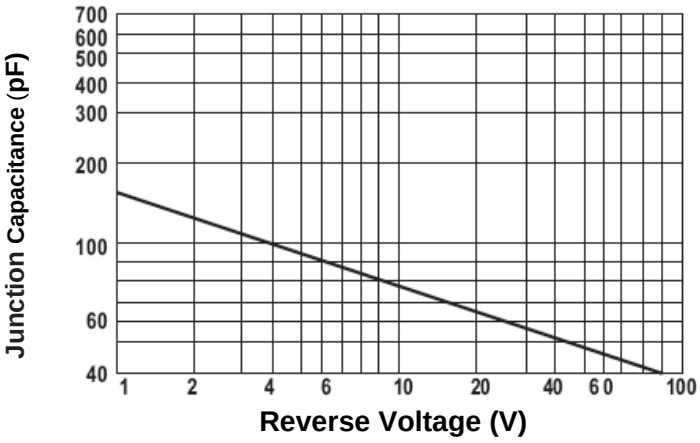
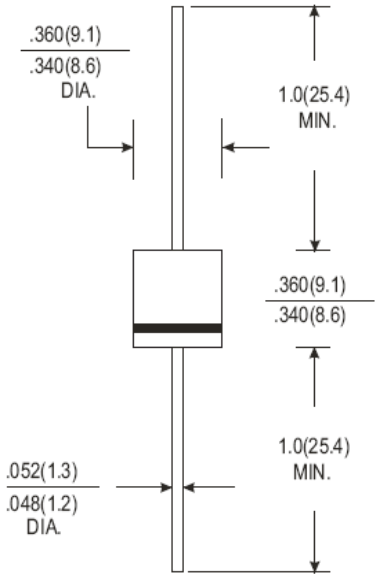


Fig.4- Typical Junction Capacitance



Dimensions in inches (mm)



T6L

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