

6A High Current Rectifier

Features

- Low forward voltage drop
- Low leakage current, Typical I_R less than $0.1\mu A$
- High forward current capability
- High forward surge current capability
- High reliability
- High temperature soldering guaranteed: $260^\circ C/10$ seconds
/.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliant



T6L

Mechanical Data

Case:	T6L, molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026
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	GI750	GI751	GI752	GI754	GI756	GI758	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	V	
IF(AV)	Maximum Average Forward Rectified Current	6.0						A	TA=60° C, P.C.B. mounting
		22							TL=60° C, 0.125" (3.18mm) lead length
IFSM	Peak Forward Surge Current	400						A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
TJ, TSTG	Operating Junction and Storage Temperature Range	-50 to +150						°C	

6A High Current Rectifier

GI750 - GI758

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

Symbol	Description	GI750	GI751	GI752	GI754	GI756	GI758	Unit	Conditions	
V_F	Maximum Instantaneous Forward Voltage	0.90					0.95	V		$I_F=6.0\text{A}$
		1.25					1.30			$I_F=100\text{A}$
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	$T_A=25^{\circ}\text{C}$
		1.0							mA	$T_A=100^{\circ}\text{C}$
T_{rr}	Typical Reverse Recovery Time	2.5							μS	$I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$
C_J	Typical Junction Capacitance	150							pF	$V_R=4\text{V}$, $f=1\text{MHz}$
R_{thJA}	Typical Thermal Resistance	20							$^{\circ}\text{C} / \text{W}$	Note
R_{thJL}		4.0								

Note: Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B mounted on 1.1x1.1" (30x30mm) copper pad areas.

Typical Characteristics Curves

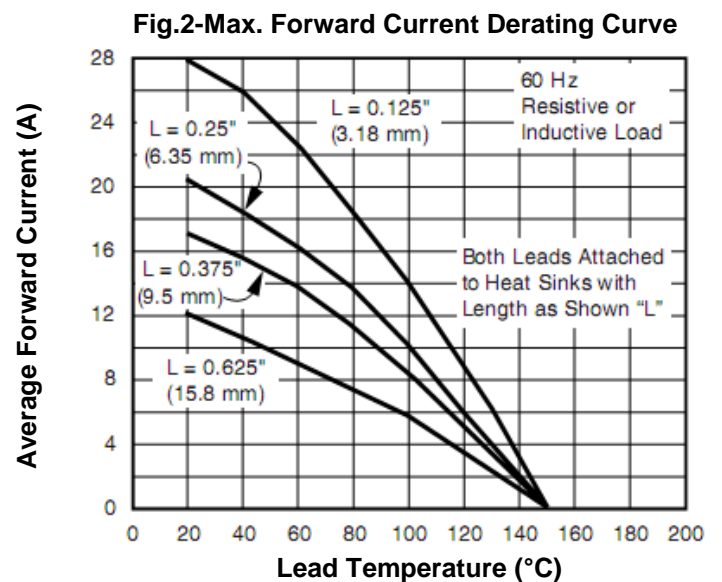
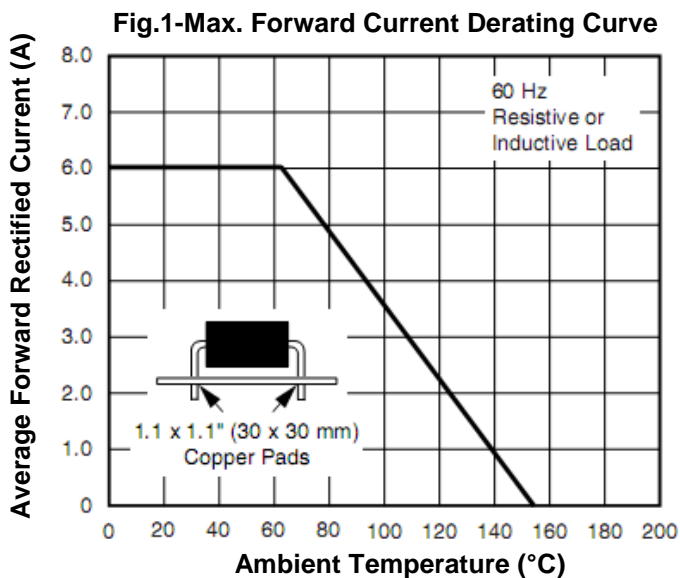


Fig.3-Max. Non-Repetitive Peak Forward Surge Current

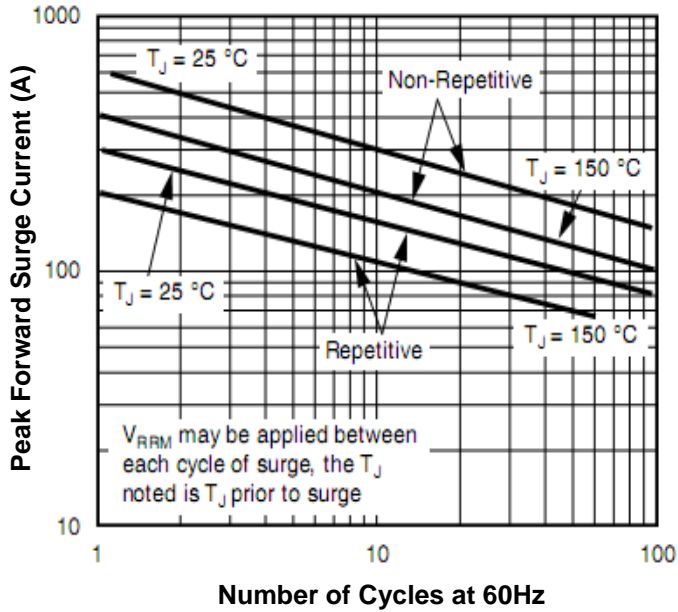


Fig.4-Typical Instantaneous Forward Characteristics

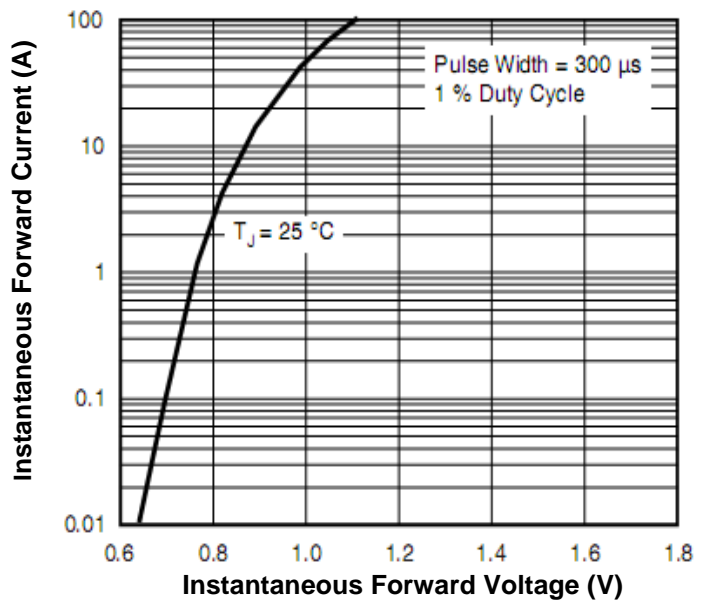
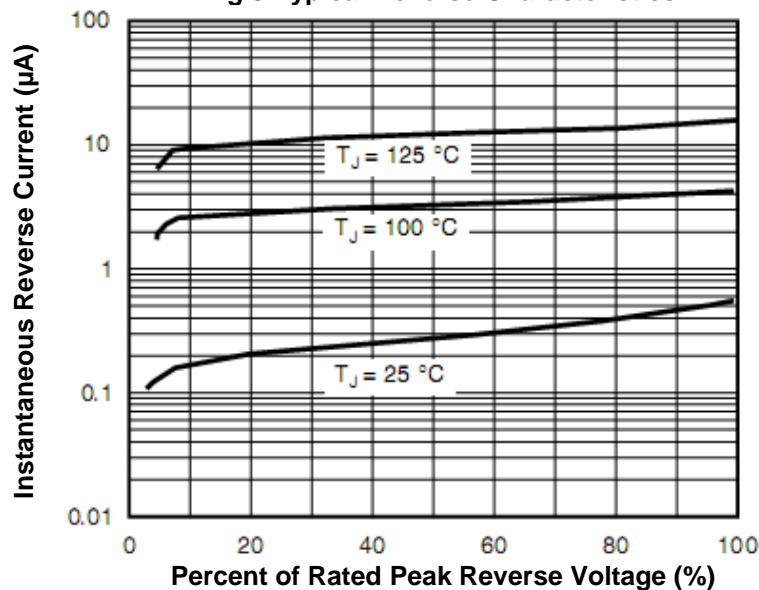
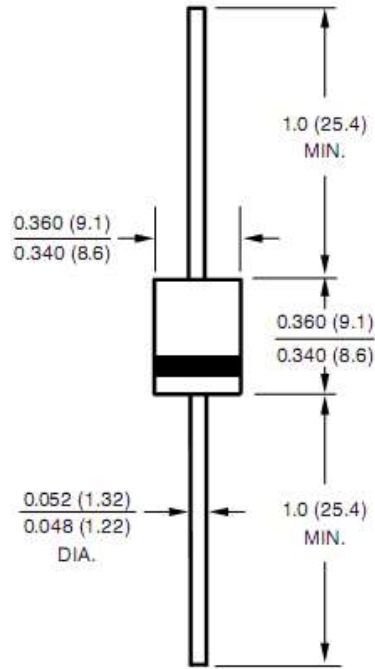


Fig.5-Typical Reverse Characteristics



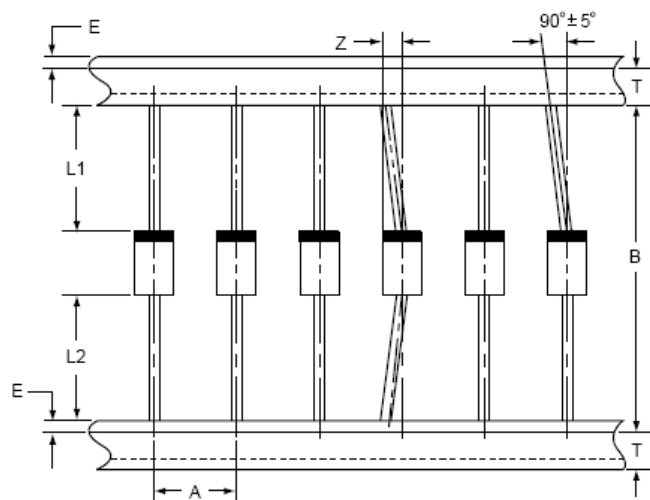
Dimensions in inch (mm)



T6L

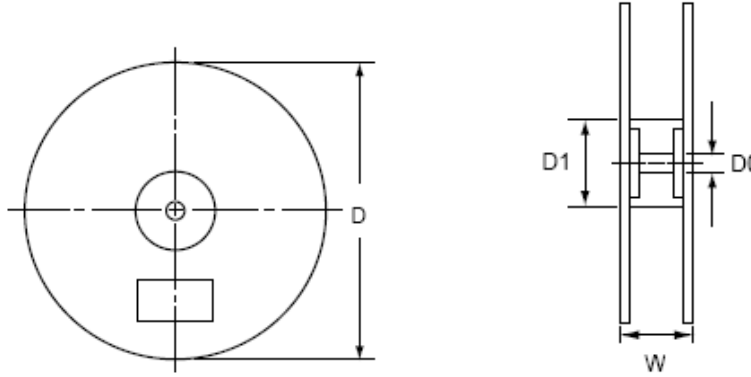
Packing Information:

Carrier Tape Dimensions (in mm) Loaded quantity 750 PCS per reel



Components Outline	A	B	L1- L2	T	E	Z
T6L	10±0.5	52.4±1	Max.1.0	6±0.4	Max.0.8	Max.1.2

Reel Dimensions (in mm)



D	D0	D1	W
330.0±2.0	16.6±0.4	85.7±0.3	79.0±1.0

Carton Information

PCS per Carton	Carton Size
3000	340X340X330 (in mm)

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