

6A Silicon Rectifier

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:	Cathode indicated by color band
Weight:	0.07 Ounce, 2.1 gram

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

Symbol	Description	T6A 05L	T6A 10L	T6A 20L	T6A 40L	T6A 60L	T6A 80L	T6A 100L	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
IF(AV)	Maximum Average Forward Rectified Current	6.0							A	Note 1
IFSM	Peak Forward Surge Current	400							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
TJ	Operating Junction Temperature Range	-55 to +125							° C	
TSTG	Storage Temperature Range	-55 to +150							° C	

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T6A05L - T6A100L

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

Symbol	Description	T6A 05L	T6A 10L	T6A 20L	T6A 40L	T6A 60L	T6A 80L	T6A 100L	Unit	Conditions
V _F	Maximum Forward Voltage	0.95							V	I _F =6A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	T _A =25° C
		400								T _A =100° C
C _J	Typical Junction Capacitance	100							pf	V _R =4V, f=1MHz
R _{θ-JA}	Maximum Thermal Resistance	10							° C/W	Note 2

Note: 1. 60Hz, resistive or inductive load. Derate current by 20% for capacitive load
2. Thermal resistance from junction to ambient at .375" (9.5mm) lead length.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

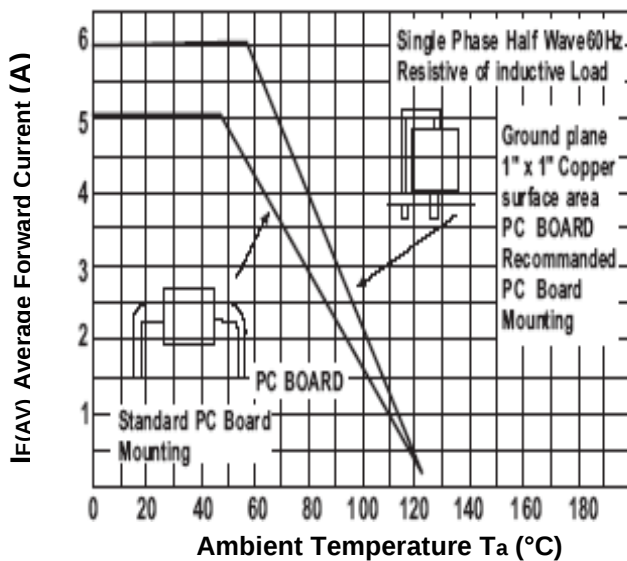
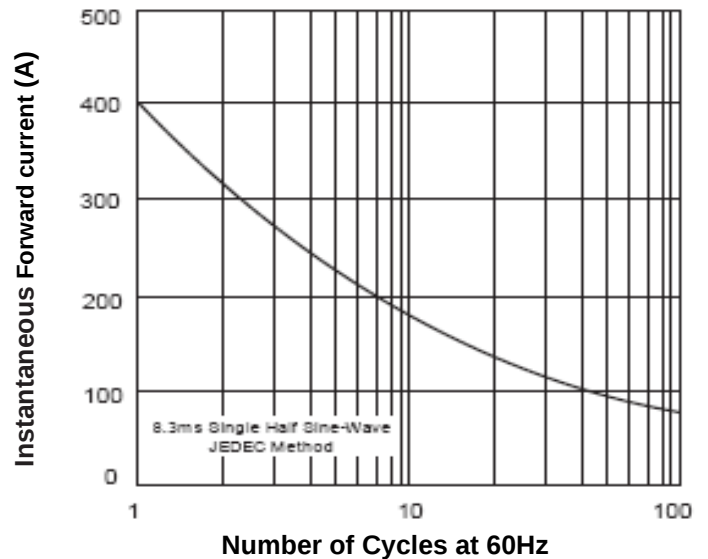


Fig.2- Max. Non-Repetitive Forward Surge Current



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T6A05L - T6A100L

Fig.3-Typical Instantaneous Forward Characteristics

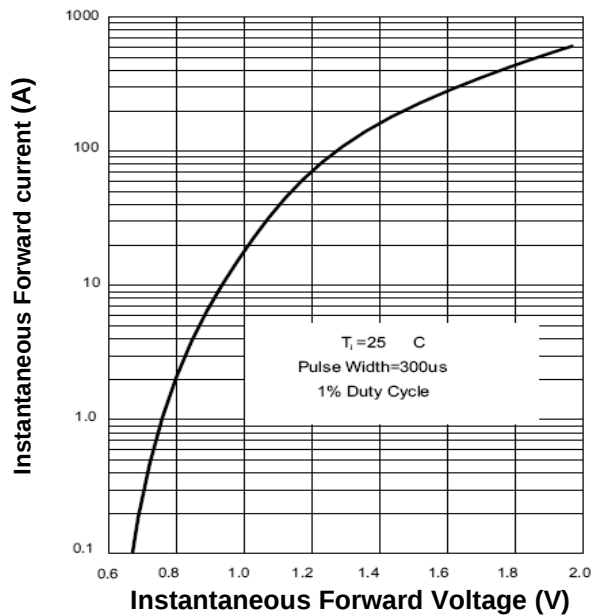
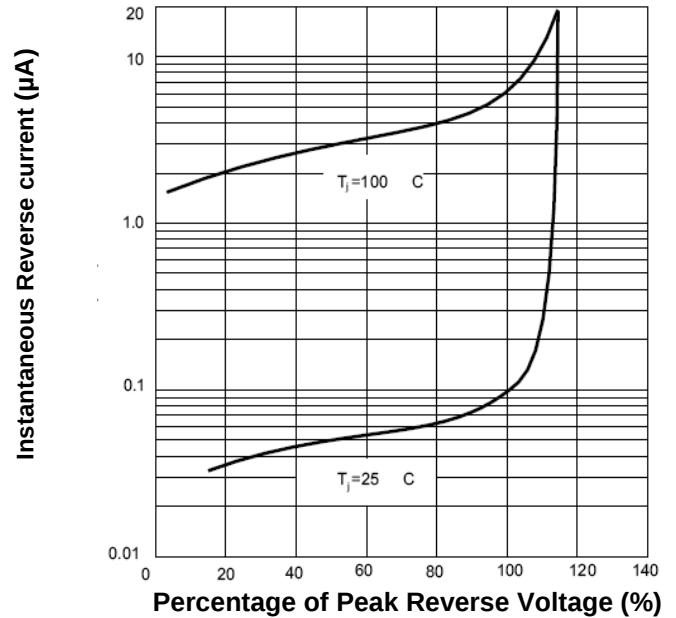
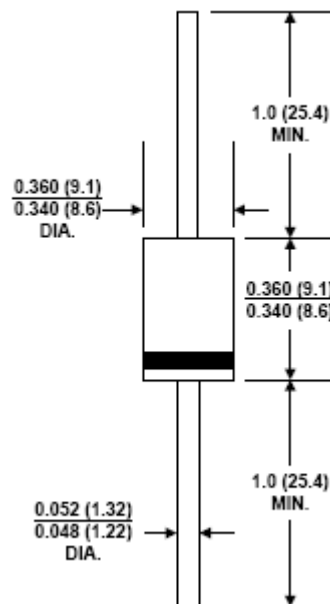


Fig.4- Typical Reverse Characteristics



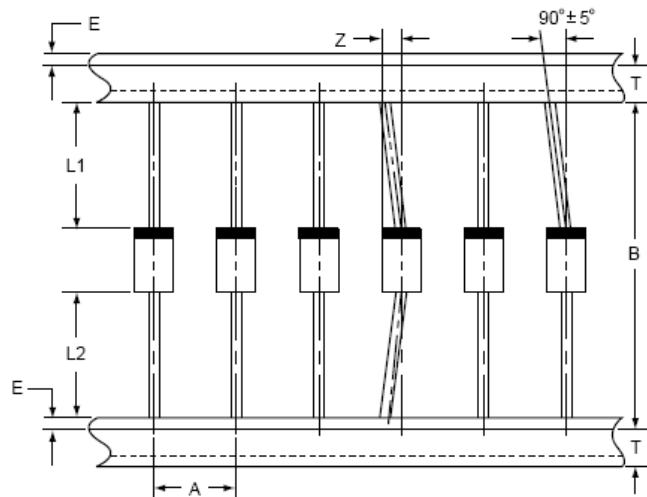
Dimensions in inches (mm)



T6L

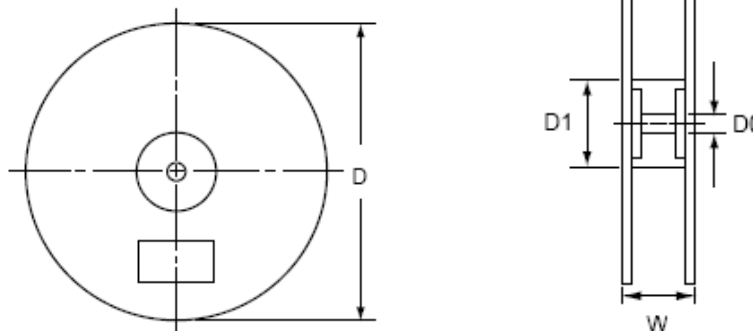
Packing Information:

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)

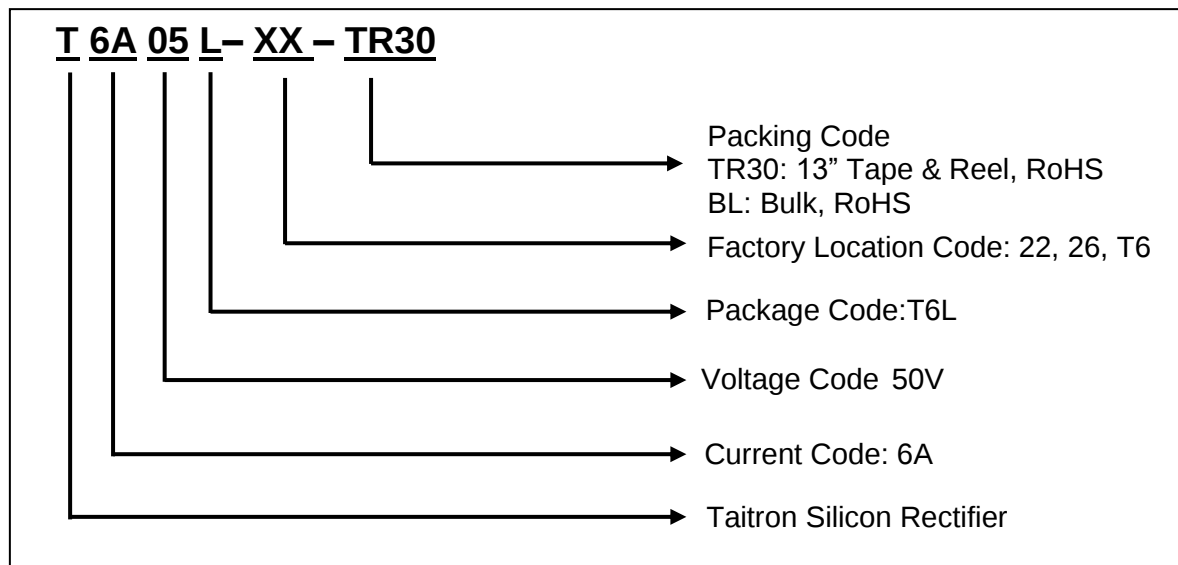


D	D0	D1	W
330.0±2.0	16.6±0.4	85.7±0.3	79.0±1.0

Carton Information (in mm)

PCS per Carton	Carton Size
3000	340X340X330

How to Order:



How to contact us

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