

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



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

Symbol	Description	T6A 05L	T6A 10L	T6A 20L	T6A 40L	T6A 60L	T6A 80L	T6A 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	6.0							A	Note 1
I_{FSM}	Peak Forward Surge Current	400							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +125							°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

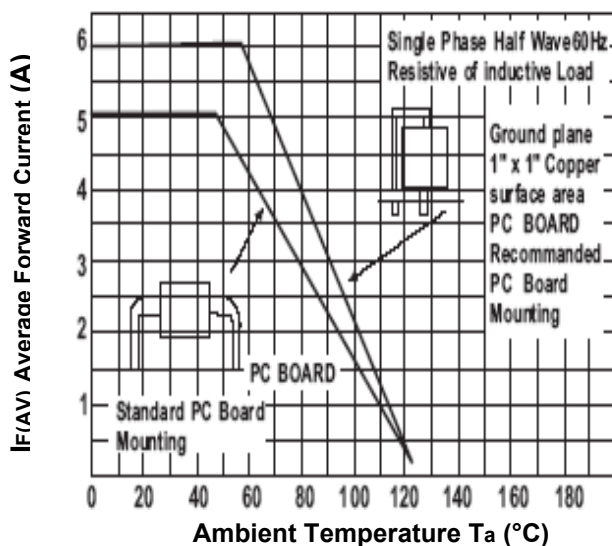
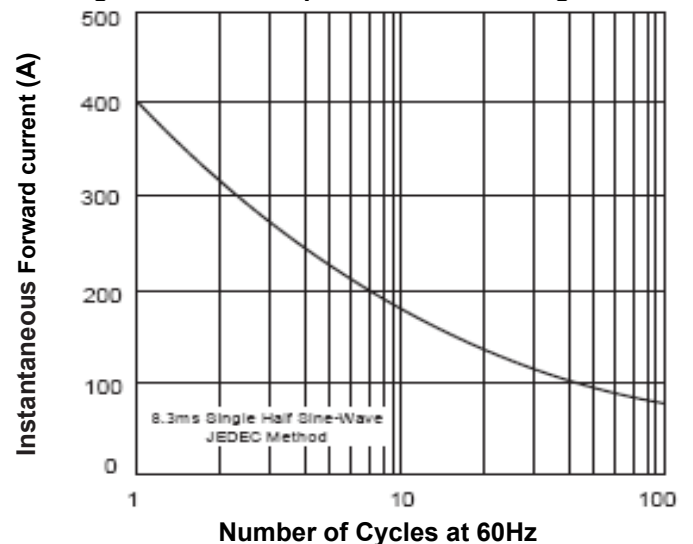


Fig.2- Max. Non-Repetitive Forward Surge Current



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Fig.3-Typical Instantaneous Forward Characteristics

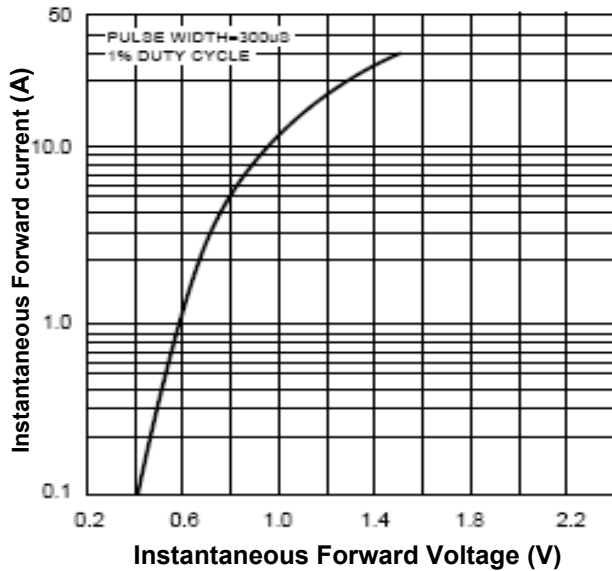
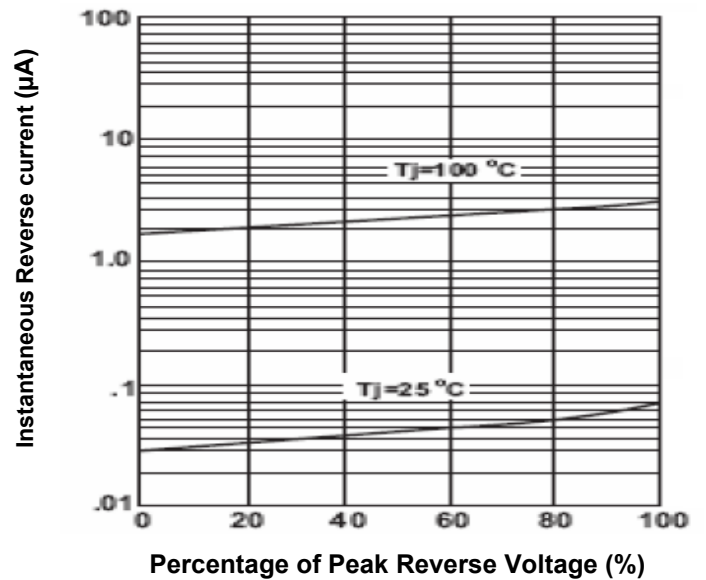
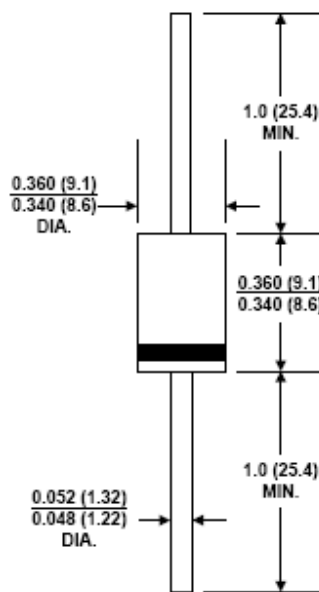


Fig.4- Typical Reverse Characteristics



Dimensions in inches (mm)



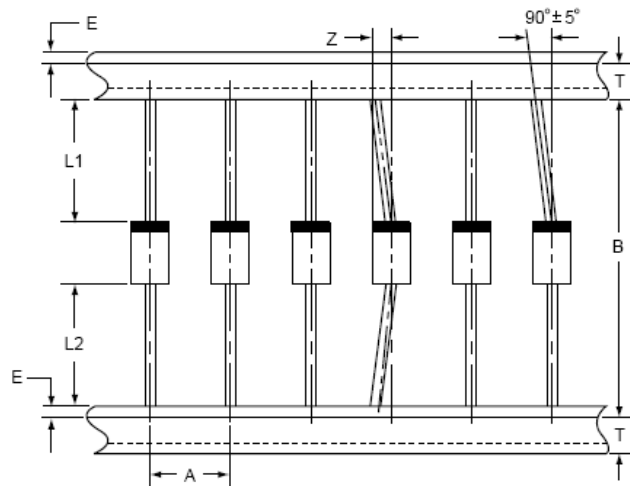
T6L

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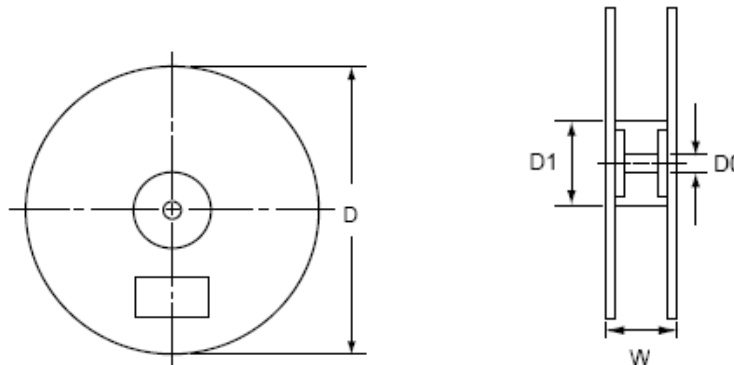
Packing Information:

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

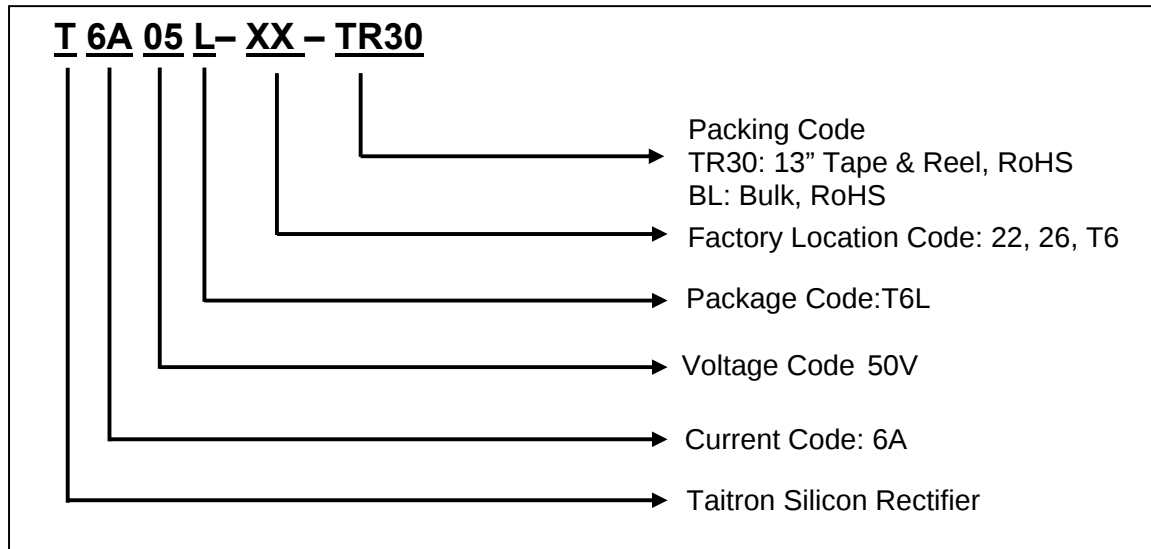
Carton Information

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

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How to Order:



How to contact us

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