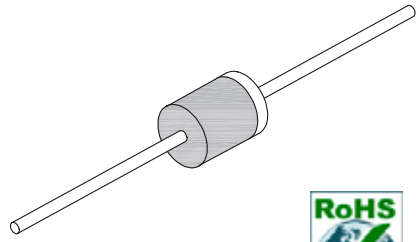
6.0A Standard Rectifier



T6

RoHS Compliant

Features

- Low Forward Voltage Drop
- Low Reverse Leakage
- High 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:	Molded Plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Axial leads, solderable per MIL-STD-202E, Method 208C
Polarity:	Cathode indicated by color band
Weight:	0.06 ounce, 1.7grams

Maximum Ratings *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	T6A05	T6A10	T6A20	T6A40	T6A60	T6A80	T6A100	Unit
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
$I_{O(AV)}$	Maximum Average Forward Rectified Current @Ta=60° C	6.0							A
I_{FSM}	Peak Forward Surge Current (Note1)	250							A
T_J	Operating Junction Temperature Range	-65 to +150							° C
T_{STG}	Storage Temperature Range	-65 to +150							° C

Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	T6A05	T6A10	T6A20	T6A40	T6A60	T6A80	T6A100	Unit
V_F	Maximum Forward Voltage @ IF=6.0A	0.95							V
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	TA=25° C			5.0				µA
		TA=100° C			50				
C_J	Typical Junction Capacitance (Note2)	100							pf
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	10							° C/W

Note: 1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method)
2. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
3. Thermal resistance from junction to ambient at .375" (9.5mm) lead length.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

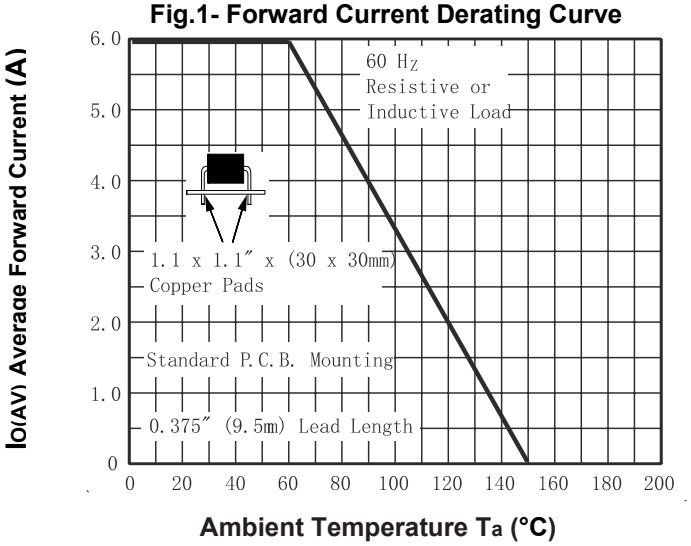


Fig.2-Max. Non-Repetitive Forward Surge Current

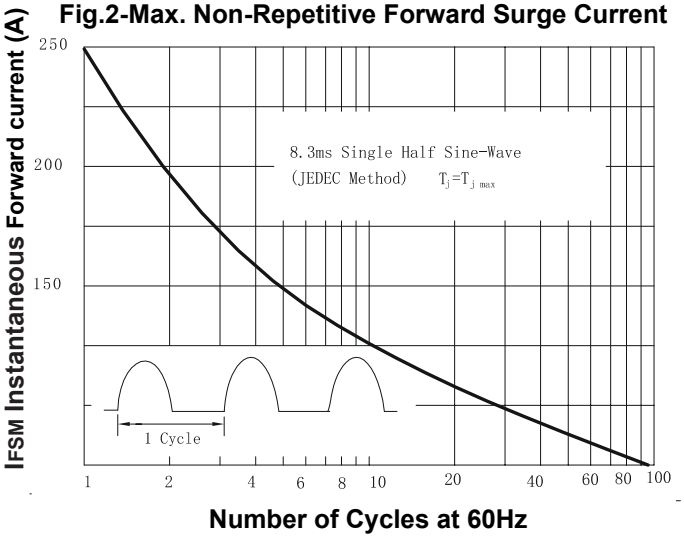


Fig.3-Typical Instantaneous Forward Characteristics

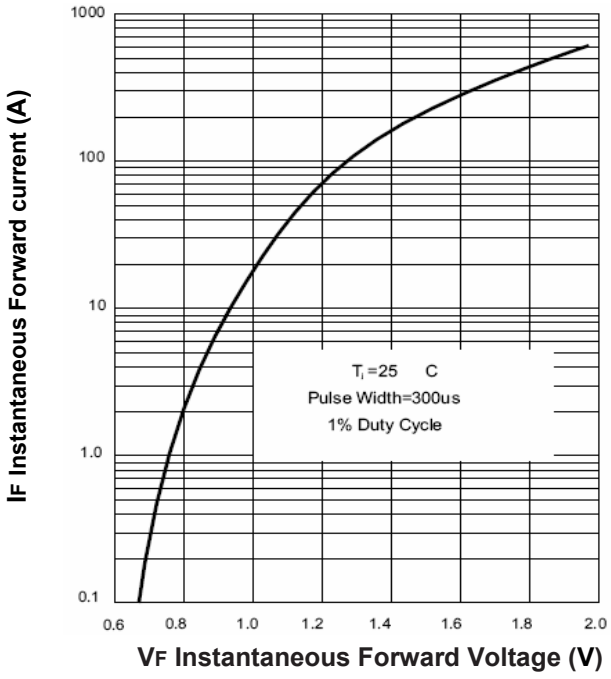


Fig.4- Typical Reverse Characteristics

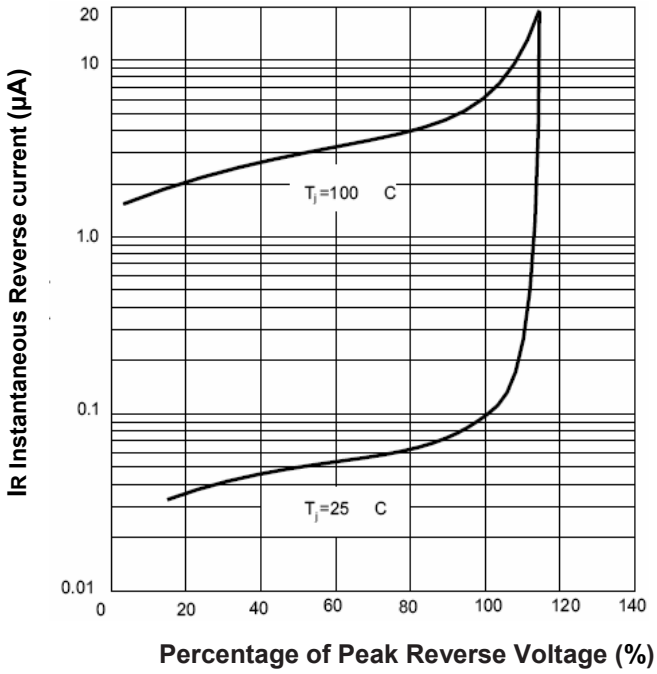
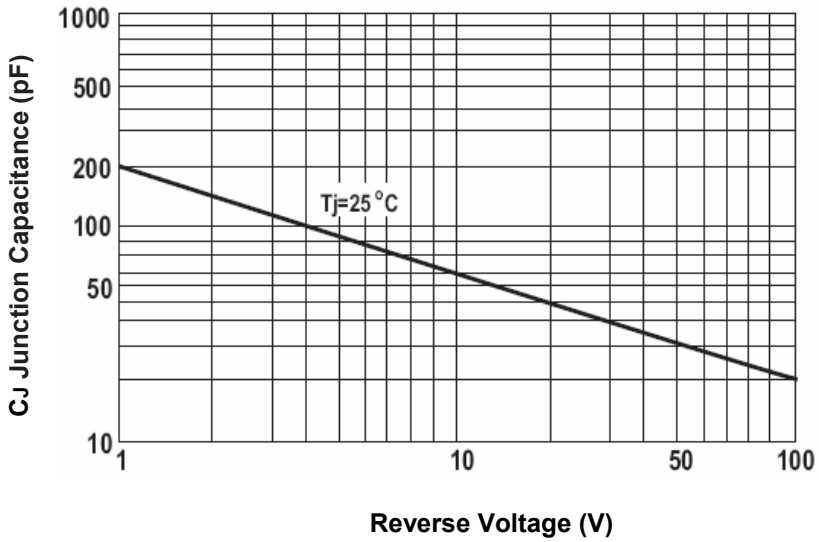
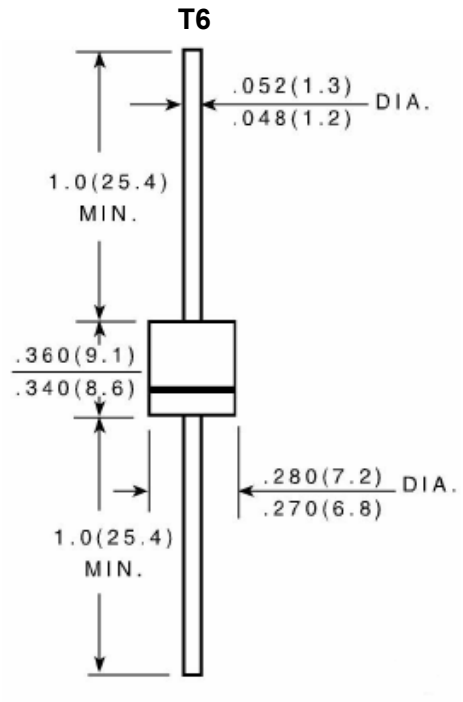


Fig.5-Typical junction capacitance

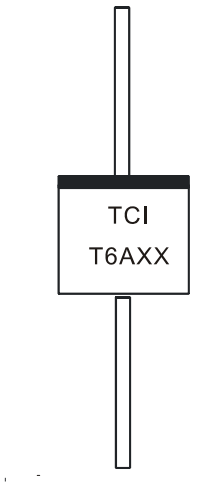


T6A05 - T6A100

Dimensions in inches (mm)

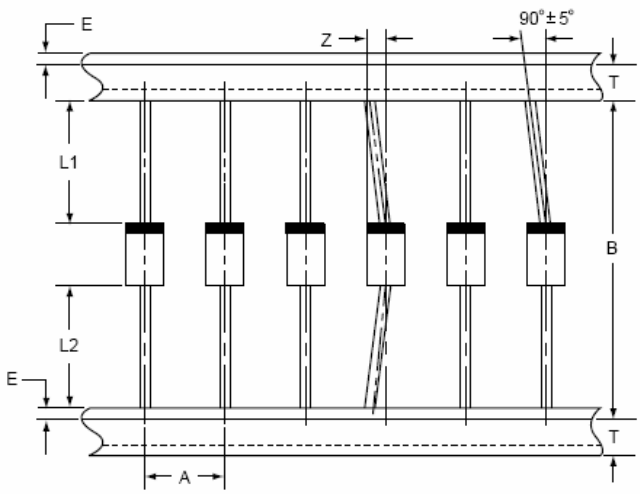


Marking Information:



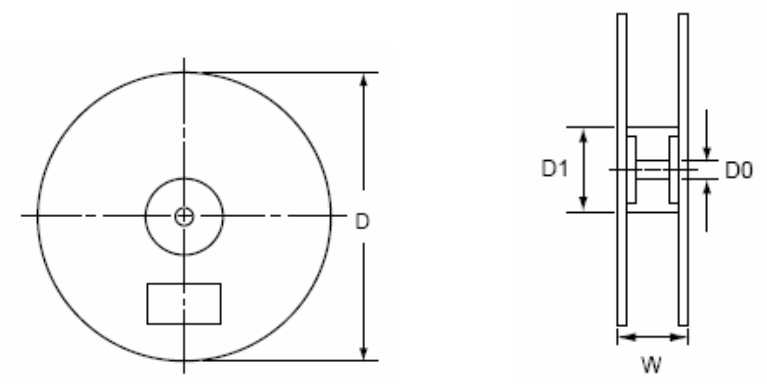
Packing Information:

Carrier Tape Dimensions (in mm)



Components Outline	A	B	| L1- L2|	T	E	Z
T6	10±0.5	52.4+1.5/-0.4	Max.1.0	6.0±0.4	Max.0.8	Max.1.2

Reel Dimensions (in mm)



D	D0	D1	W
330.0	30.0±5.0	85.7±5.0	79.0±1.0

Packing Quantity Information:

Type	PCS per Inner Box	PCS per Carton
-TR30 Tape & Reel	1000/Reel	4000
-BL Bulk	400	9600
-AR Ammo	400	7200

Carton Information:

Type	Carton Size
-TR30 Tape & Reel	360 X 350 X 345 (in mm)
-BL Bulk	360 X 325 X 295 (in mm)
-AR Ammo	500 X 280 X 305(in mm)

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