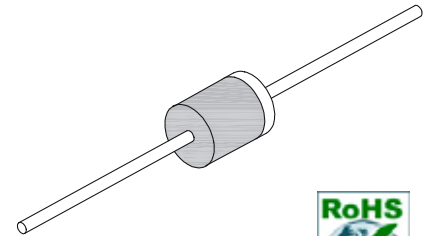


6.0A Standard Rectifier

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



T6



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

Symbol	Description	T6A05	T6A10	T6A20	T6A40	T6A60	T6A80	T6A100	Unit
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
IO(AV)	Maximum Average Forward Rectified Current @Ta=60° C	6.0							A
IFSM	Peak Forward Surge Current (Note1)	250							A
TJ	Operating Junction Temperature Range	-65 to +150							° C
TSTG	Storage Temperature Range	-65 to +150							° C

6.0A Standard Rectifier

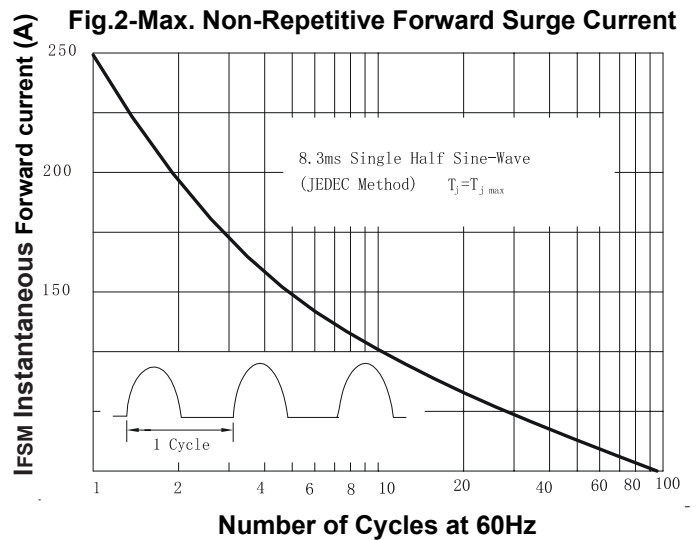
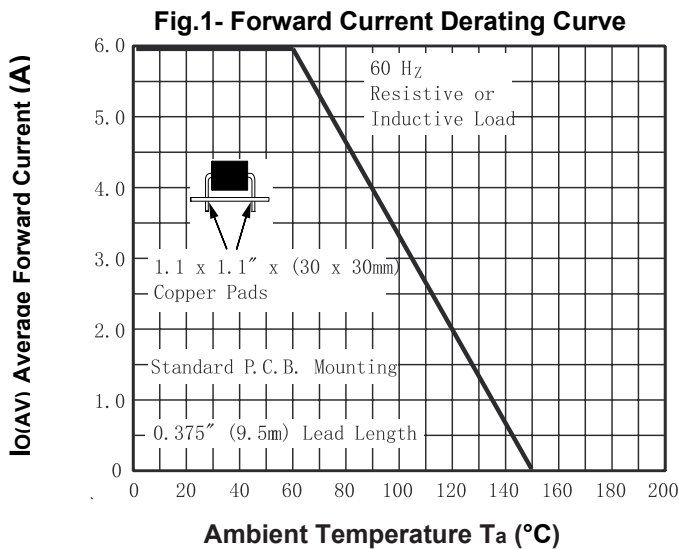
T6A05 - T6A100

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

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

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

Typical Characteristics Curves



6.0A Standard Rectifier

T6A05 - T6A100

Fig.3-Typical Instantaneous Forward Characteristics

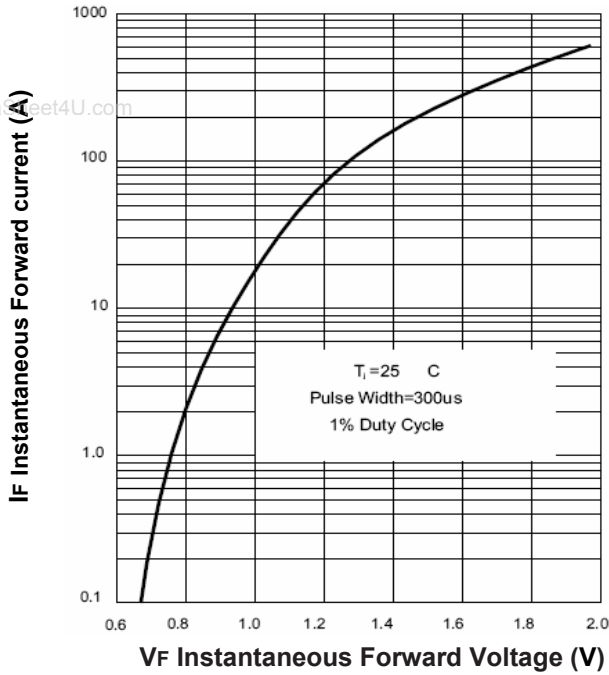


Fig.4- Typical Reverse Characteristics

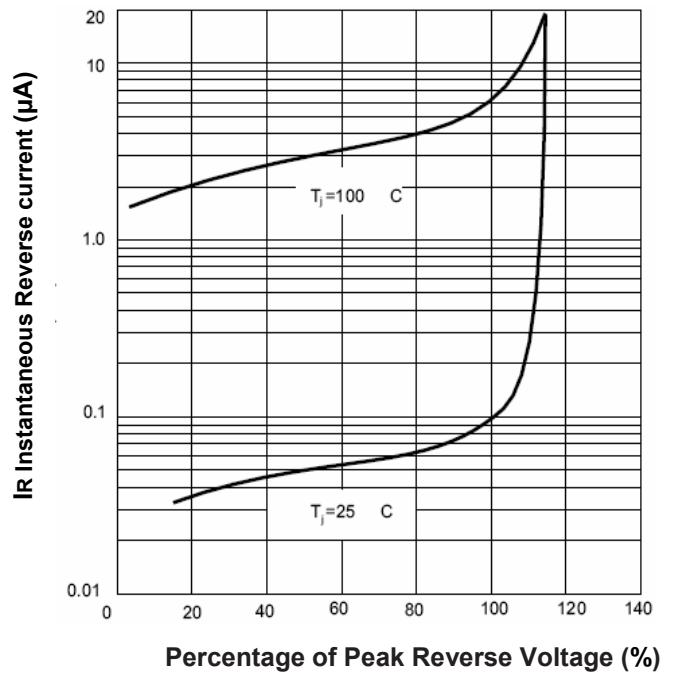
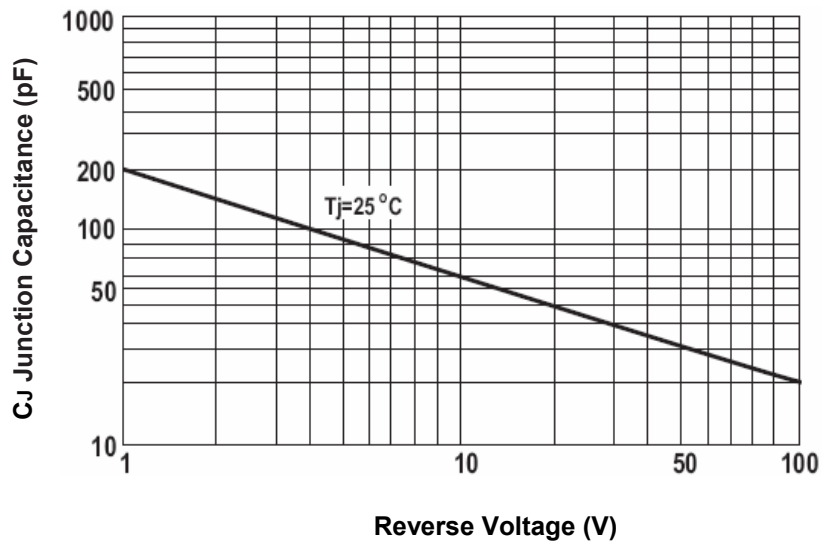


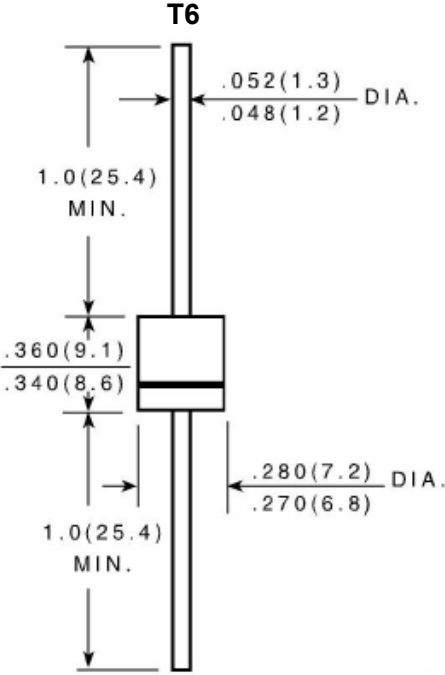
Fig.5-Typical junction capacitance



6.0A Standard Rectifier

T6A05 - T6A100

Dimensions in inches (mm)



Marking Information:

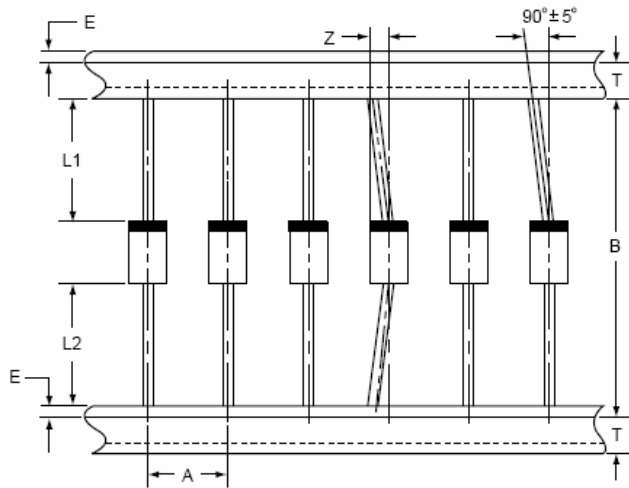


6.0A Standard Rectifier

T6A05 - T6A100

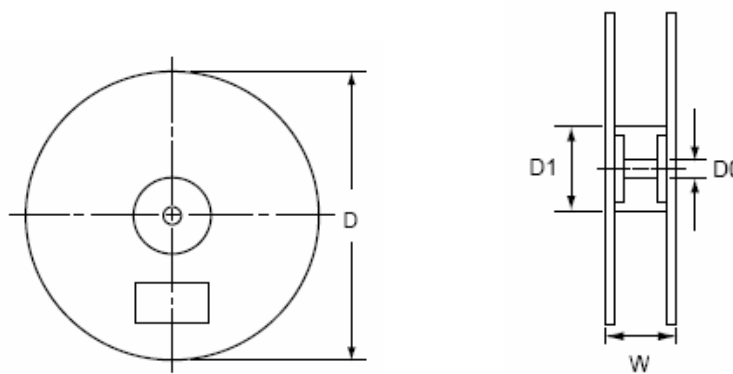
Packing Information:

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

6.0A Standard Rectifier

T6A05 - T6A100

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

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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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