

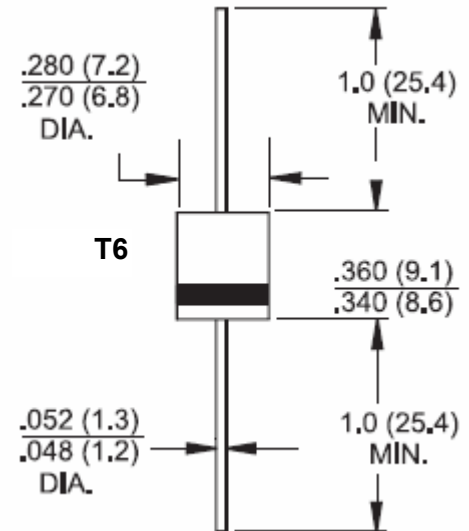
6 Amp Fast Recovery Rectifier

Features

- Fast recovery time with high efficiency
- low forward voltage drop at 6A
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds
/.0375" (9.5mm) lead length, 5lbs (2.3kg) tension

Mechanical Data

Case:	T6, molded plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Polarity:	Cathode indicated by color band
Weight:	0.055 Ounce, 1.65 gram



Dimensions in inches (mm)

Maximum Ratings and Electrical Characteristics ($T_A=25^\circ\text{C}$ unless noted otherwise)

Symbol	Description	TF 601	TF 602	TF 603	TF 604	TF 605	TF 606	TF 607	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	
I_{AV}	Maximum Average Forward Rectified Current	6							A	Note 1
I_{FSM}	Peak Forward Surge Current	200							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 +150							°C	

6 Amp Fast Recovery Rectifier

TF602~ TF607

Symbol	Description	TF 601	TF 602	TF 603	TF 604	TF 605	TF 606	TF 607	Unit	Conditions
V_F	Maximum Forward Voltage	1.2							V	I _F at 3.0 A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	10							μA	T _A =25° C, V _R =100V
		200								T _A =100° C, V _R =100V
T_{rr}	Typical Reverse Recovery Time	150			250		500		nS	I _F =0.5A, I _R =1A, I _{rr} =0.25A
C_J	Typical Junction Capacitance	80							pf	V _R =4V, f=1MHz
R_{θ-JA}	Maximum Thermal Resistance	30							° C/W	Note 2

- Note:**
1. Single phase half wave, 60 Hz, resistive or inductive load at T_a=55 °C
Derate current by 20% for capacitive load
 2. Thermal resistance from junction to ambient at .375" (9.5mm) lead length, PCB mounted with copper pad area of 0.6" x 0.6" (16x16mm).

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

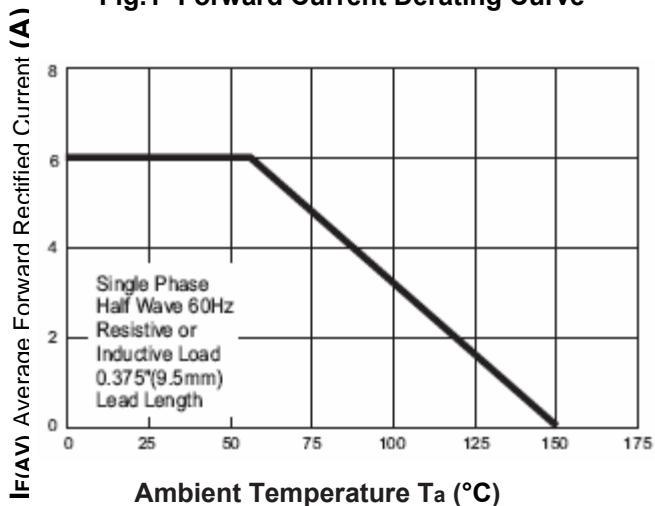


Fig.2- Max. Non-Repetitive Forward Surge Current Uni-directional only

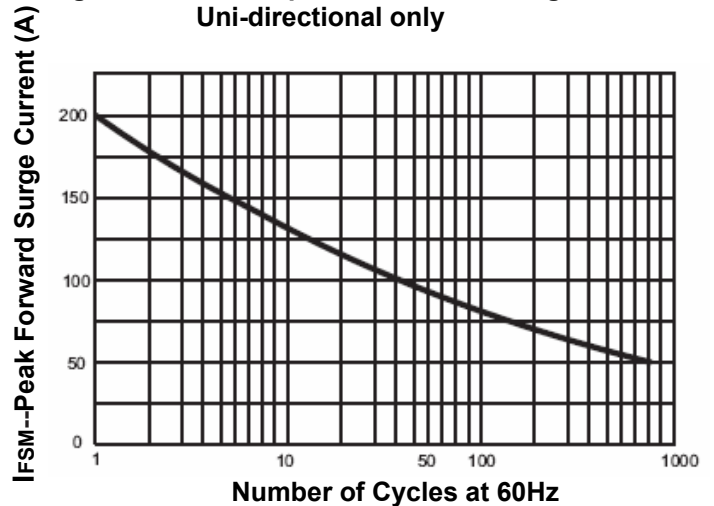


Fig.3- Typical Forward Characteristics

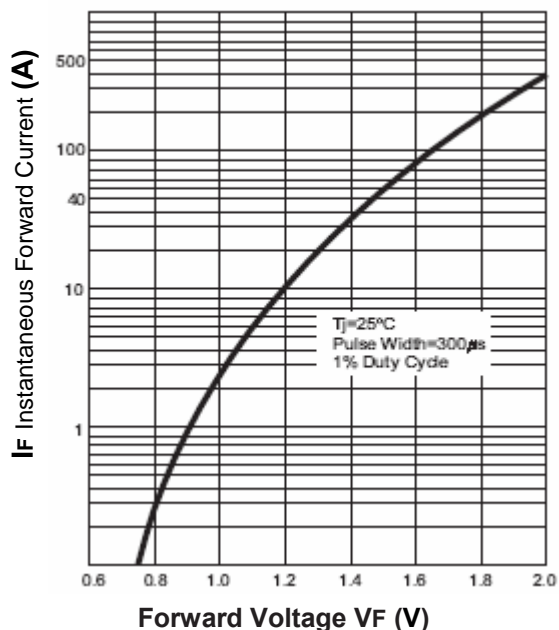
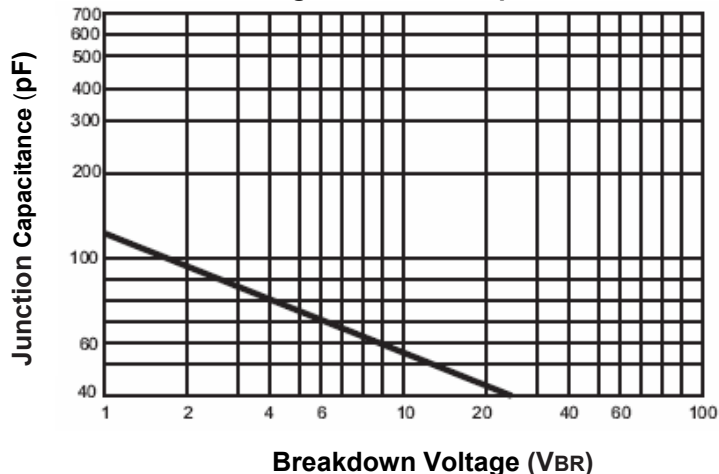


Fig.4- Junction Capacitance



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