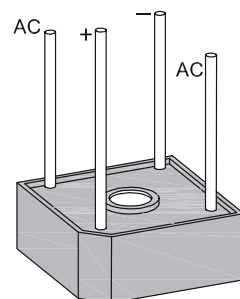


10A Bridge Rectifier

Features

- Diffused junction
- High current capability
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit board application
- RoHS Compliant



MP6

Mechanical Data

Case:	MP6, Molded plastic body with Metal Heat Sink
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Plated leads solderable per MIL-STD-202 method 208
Polarity:	Marked on case
Mounting Position:	Through hold for #6 screw
Mounting Torque:	10cm-kg (8.8 in-lbs) Max.
Weight:	3.8 grams

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

Symbols	Parameter	TB1005M	TB101M	TB102M	TB104M	TB106M	TB108M	TB1010M	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	10							A	$T_A=50^{\circ}C$, Mounted on metal chassis
I_{FSM}	Peak Forward Surge Current	150							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

10A Bridge Rectifier

TB1005M - TB1010M

Symbols	Parameter	TB1005M	TB101M	TB102M	TB104M	TB106M	TB108M	TB1010M	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage Drop per leg	1.1							V	I _F =5A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							μA	T _A =25°C
		500								T _A =125°C
I ² _t	Rating for Fusing (1ms<t<8.3ms)	93							A ² S	
C _J	Typical Junction Capacitance	110							pF	V _R =4V, f=1MHz
R _{θJC}	Typical Thermal Resistance per leg	7.5							°C/W	Mounted on metal chassis
T _J , T _{STG}	Operating and Storage Temperature Range	-65 to +125							° C	

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

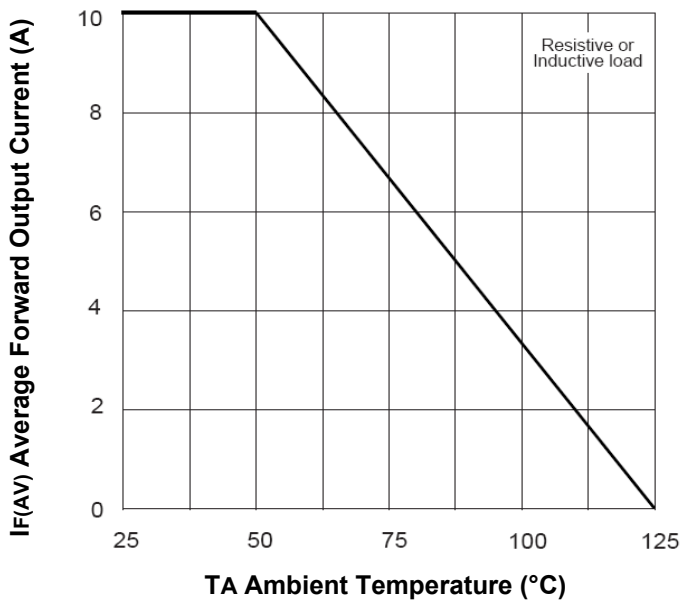
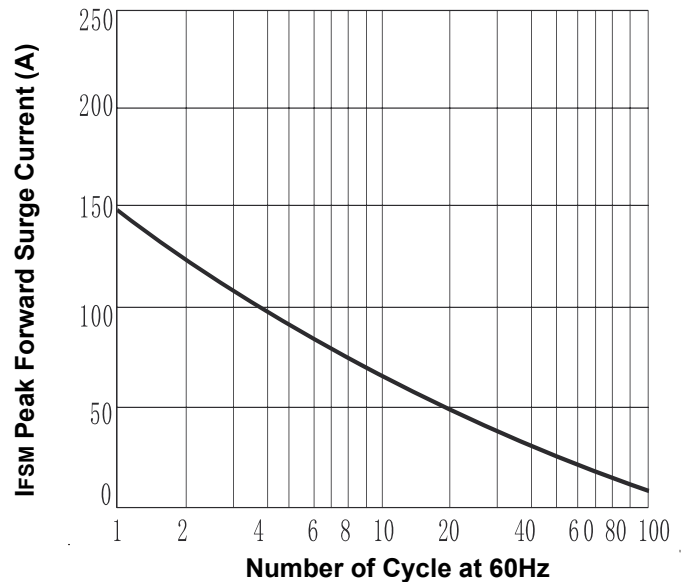


Fig.2- Max. Non-Repetitive Peak Forward Surge Current



10A Bridge Rectifier

TB1005M - TB1010M

Fig.3- Typical Forward Characteristics
per leg

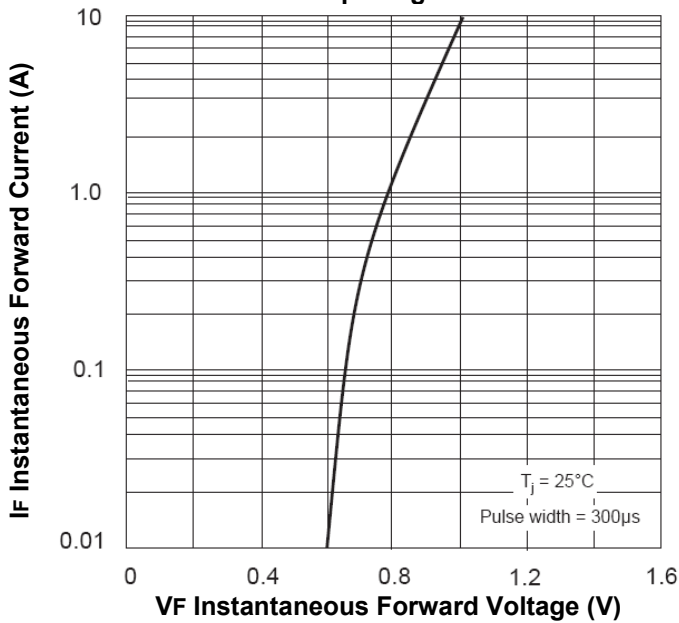
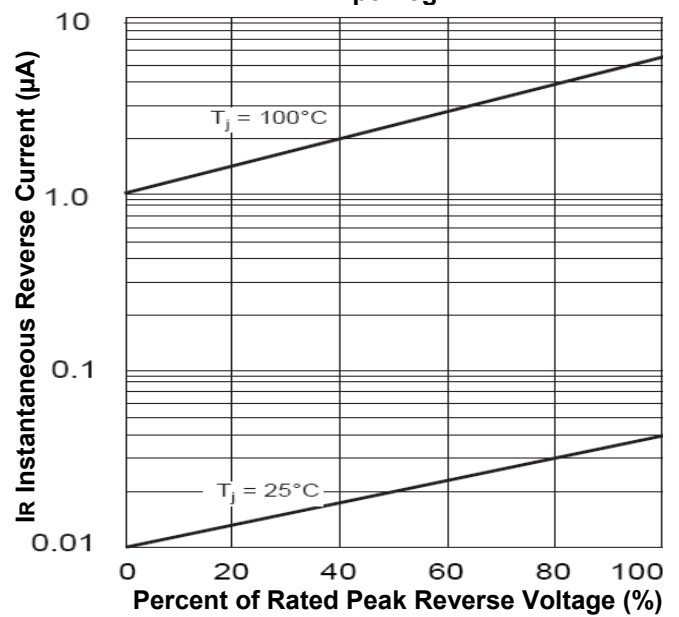
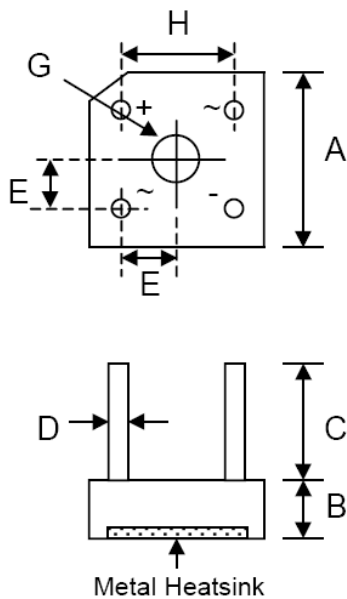


Fig.4- Typical Reverse Characteristics
per leg



Dimensions in mm



MP-6		
Dim	Min	Max
A	14.73	15.75
B	5.80	6.90
C	19.00	—
D	1.00 Ø Typical	
E	5.11	6.14
G	Hole for #6 screw	
	3.60	4.00
H	10.30	11.30

10A Bridge Rectifier

TB1005M - TB1010M

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