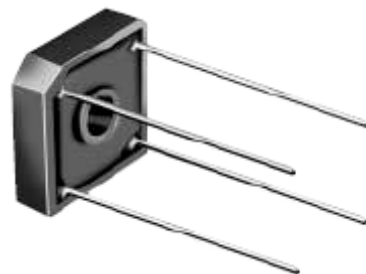


10A Single-Phase Bridge Rectifier

Features

- High forward surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length,
5 lbs (2.3kg) tension
- RoHS Compliant



Mechanical Data

Case:	Molded plastic body
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Lead solderable per MIL-STD-202E method 208C
Polarity:	Marked on case
Weight:	0.20 ounce, 5.62 gram

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

Symbol	Description		TB1005	TB101	TB102	TB104	TB106	TB108	TB1010	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_{AV}	Maximum Average Forward Rectified Current	T _C =50° C (Note 1)	10							A
		T _C =100°C	6							
		T _A =50°C (Note 2)	6							
I_{FSM}	Peak Forward Surge Current		150							A
I²t	Rating for Fusing (t<8.3ms)		93							A²sec
V_{ISO}	Isolation Voltage from case to leads		2500							V
T_J	Operating Temperature Range		-55 to +125							° C
T_{STG}	Storage Temperature Range		-55 to +150							° C

Single-Phase Bridge Rectifier

TB1005 ~ TB1010

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

Symbol	Description	TB1005	TB101	TB102	TB104	TB106	TB108	TB1010	Unit
V_F	Maximum Instantaneous Forward Voltage Drop Per Leg at 5.0 A	1.1							A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	10							μA
		1							mA
$R_{\theta-JC}$	Maximum Thermal Resistance (Note 1)	6							$^{\circ}C/W$

Note: 1. Unit mounted on 8.7" X 8.7" X 0.24" thick (22 X 22 X 0.6cm) Al. Plate.

2. Unit mounted on P.C. B 0.375" (9.5mm) lead length with 0.47" X 0.47" (12 X 12mm) copper pads

Typical Characteristics Curves

Fig.1- Derating Curve for Output Rectified Current

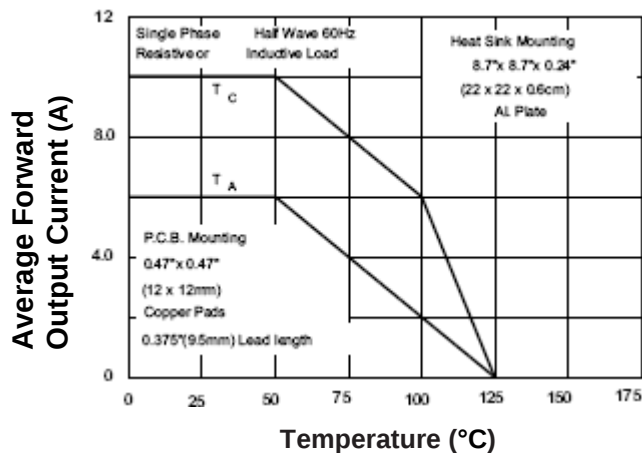
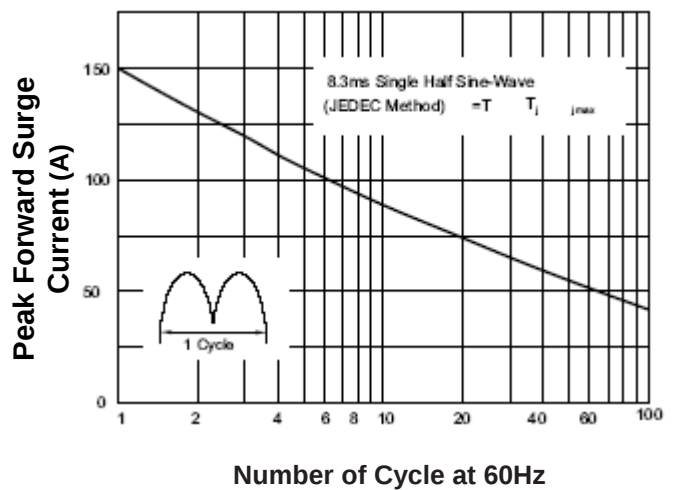


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element



Single-Phase Bridge Rectifier

TB1005 ~ TB1010

Fig.3- Typical Forward Characteristics Per Bridge Element

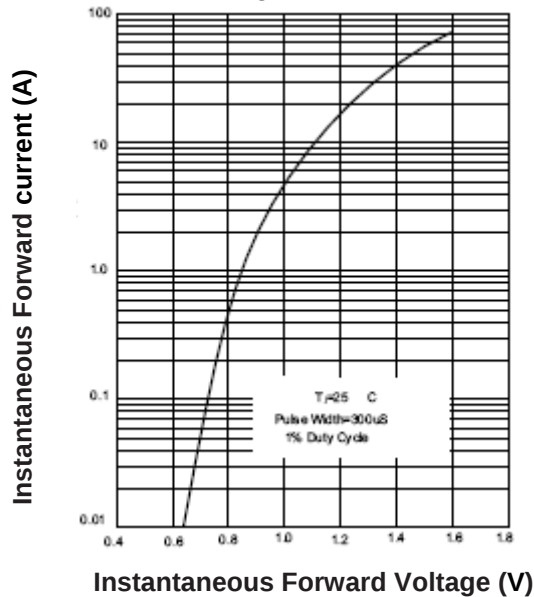
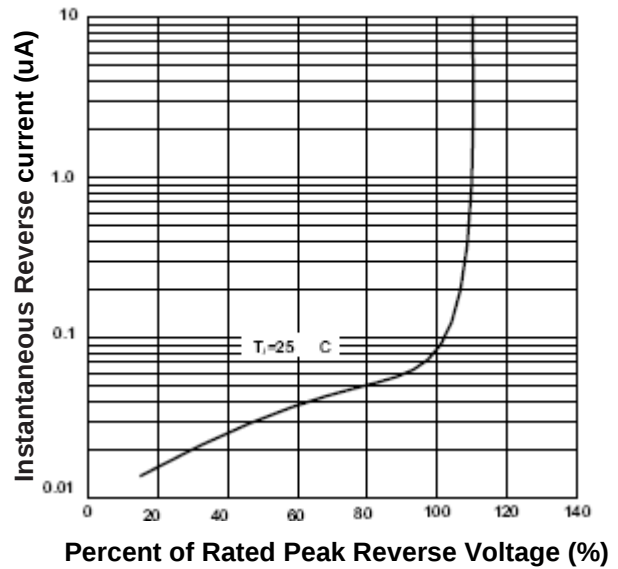
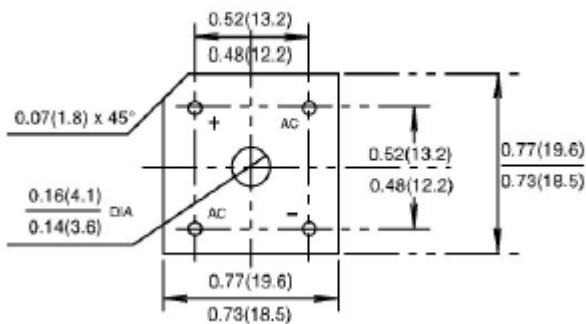


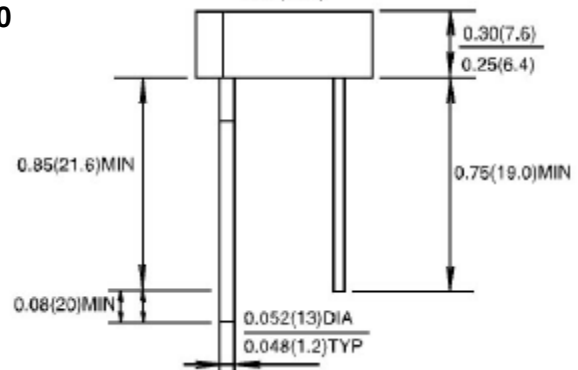
Fig.4- Typical Reverse Characteristics Per Bridge Element



Dimensions in inch (mm)



TB10



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