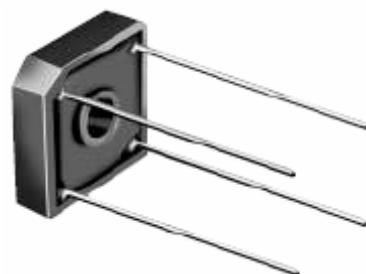


10A Single-Phase Bridge Rectifier

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
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
IAV	Maximum Average Forward Rectified Current	Tc=50° C (Note 1)	10							A
		Tc =100°C	6							
		TA=50°C (Note 2)	6							
IFSM	Peak Forward Surge Current		150							A
I²t	Rating for Fusing (t<8.3ms)		93							A²sec
VISO	Isolation Voltage from case to leads		2500							V
TJ	Operating Temperature Range		-55 to +125							° C
TSTG	Storage Temperature Range		-55 to +150							° C

Single-Phase Bridge Rectifier

TB1005 ~ TB1010

Electrical Characteristics ($T_{Ambient}=25^{\circ}\text{C}$ 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	$T_A=25^{\circ}\text{C}$	10							μA
		$T_A=125^{\circ}\text{C}$	1							mA
$R_{\theta-JC}$	Maximum Thermal Resistance (Note 1)		6							$^{\circ}\text{C/W}$

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

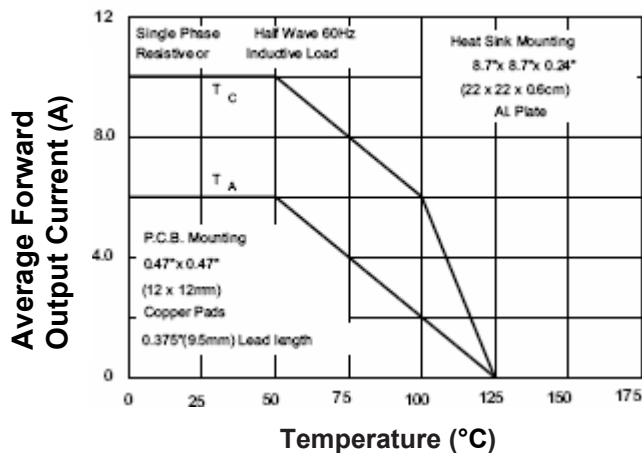
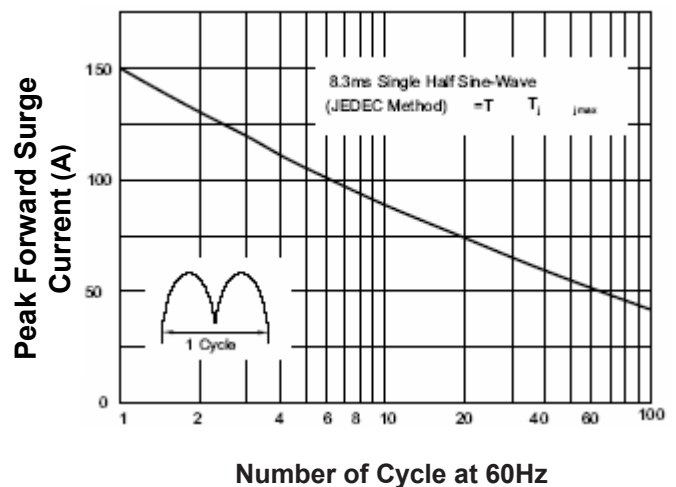


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current Per Element



Single-Phase Bridge Rectifier

TB1005 ~ TB1010

Fig.3- Typical Forward Characteristics Per Bridge Element

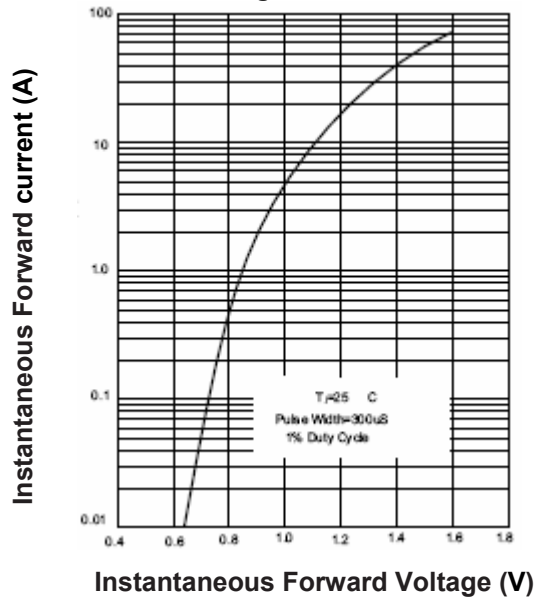
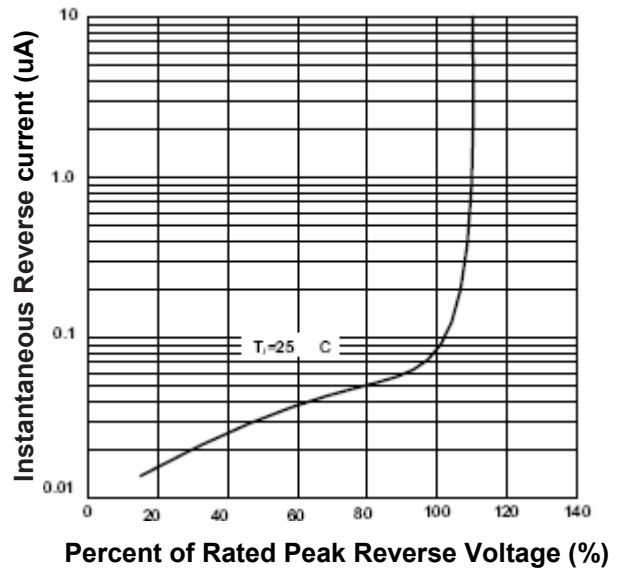
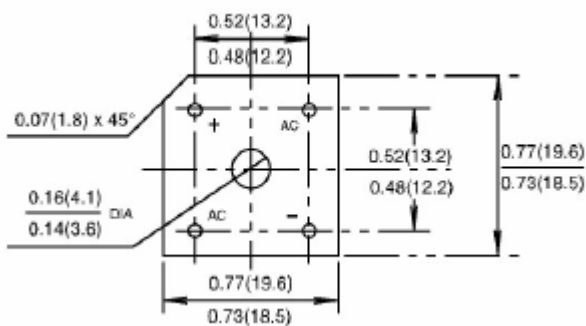


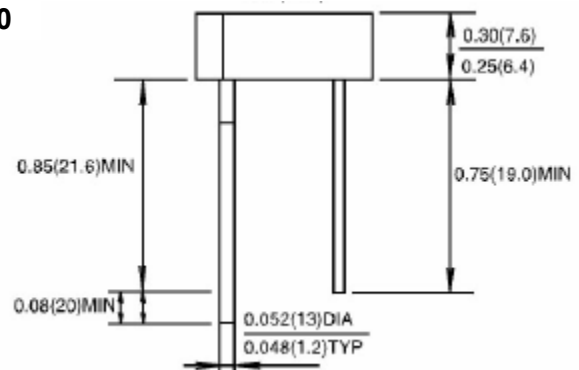
Fig.4- Typical Reverse Characteristics Per Bridge Element



Dimensions in inch (mm)



TB10



How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 247-2232 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

CROSS REGION PLAZA, 899 LINGLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931