



MICRO SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 400~1000 Volt CURRENT 1.2 Amper

FEATURES

- Glass Passivated Chip Junciton
- · Ideally Suited for Automatic Assembly
- Save Space On Printed Circuit Boards
- Ultra Thin Profile Package for Space Constrained Utilization
- Low Forward Voltage Drop
- Plastic Material: UL Flammability Classification Rating 94V-0
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

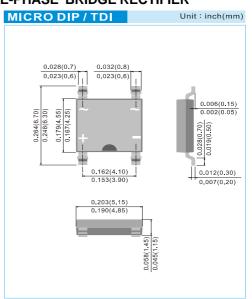
· Case: TDI, Plastic

• Terminals : Solderable per MIL-STD-750, Method 2026

· Polarity: As Marked on case

• Weight: 0.003 ounces, 0.089 grams (Approx.)

• Marking : Part number



ABSOLUTE MAXIMUM RATINGS (If not specified Ta=25°C)

PARAMETER	SYMBOL	TB4S-12	TB6S-12	TB8S-12	TB10S-12	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	400	600	800	1000	V
Maximum RMS Voltage	VRMS	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	400	600	800	1000	V
Maximum Average Rectified Forward Current	I F(AV)	1.2				Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load per diode	IFSM		5	0		А
I ²t Rating for fusing (t<8.3ms)	I²t	10.375				A ² sec
Operating Junction Temperature Range	TJ	150				°C
Storage Temperature Range	Тѕтѕ	-55 to +150				°C

ELECTRICAL CHARACTERISTICS (If not specified Ta=25°C)

PARAMETER	SYMBOL	CONDITIONS	MAX.	UNIT
Forward Voltage	V _F	I r=1.2A, Pulse measurement, Rating of per diode	1.1	V
Reverse Current	I _R At V _{RRM} ,Pulse measurement, Rating of per diode		15	μА
Typical thermal	R _{eJC}	Junction to case (Note 1)	25(typ.)	00 011
Resistance Per Diode	$R_{\theta JA}$	Junction to ambient (Note 2)	160(typ.)	°C/W

NOTE:

- 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.
- 2. Mounted on a FR4 PCB, single-sided copper, mini pad.





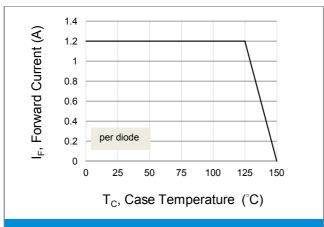


Fig.1 Forward Current Derating Curve

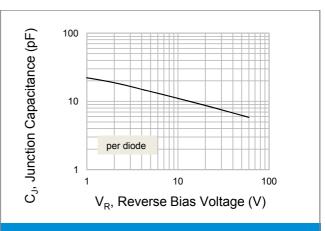


Fig.2 Typical Junction Capacitance

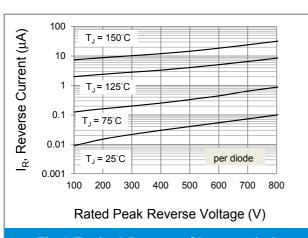


Fig.3 Typical Reverse Characteristics

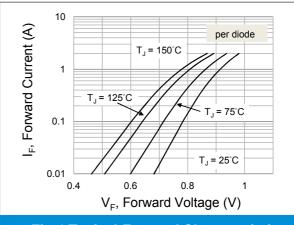


Fig.4 Typical Forward Characteristics

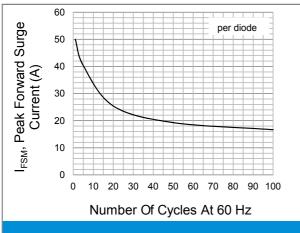
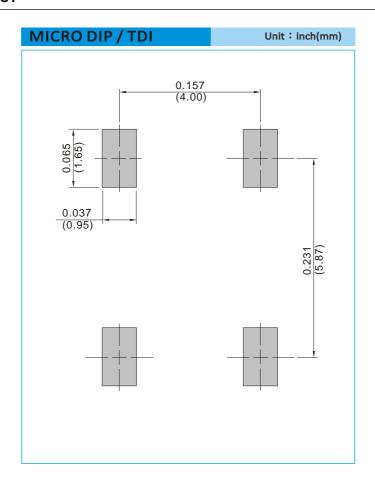


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current Uni-Directional Use Only





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 4K per 13" plastic Reel

T/R - 1K per 7" plastic Reel





Part No_packing code_Version

TB4S-12_R1_00001 TB4S-12_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.