



MICRO SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 400~800 Volt CURRENT 0.5 Amper

Recongnized File #E139973

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
- · Surge Overload Rating to 14A peak
- Plastic Material : UL Flammability Classification Rating 94V-O
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

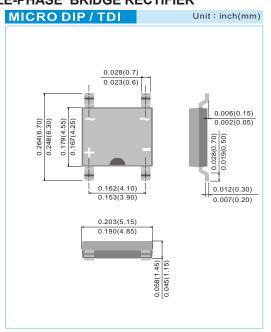
· Case: TDI, Plastic

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

• Polarity: As Marked on case

· Marking: Part number

• Weight: 0.090 grams (Approx.)



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

PARAMETER	SYMBOL	TB4S-05	TB6S-05	TB8S-05	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	400	600	800	V
Maximum RMS Voltage	VRMS	280	420	560	V
Maximum DC Blocking Voltage	VDC	400	600	800	V
Average Rectified Forward Current	I F(AV)		А		
Peak Surge Forward Current	IFSM		А		
I 2t Rating for fusing (t<8.3ms)	I²t		A ² S		
Operating Junction Temperature	TJ		°C		
Storage Temperature	Тѕтс		°C		

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

PARAMETER	SYMBOL	CONDITIONS	MAX.	UNIT	
Forward Voltage	V _F	$I_{\rm F}$ =0.5A,Pulse measurement, Rating of per diode	1	٧	
Reverse Current	I _R	At VRRM, Pulse measurement, Rating of per diode	1	μА	
Thermal Resistance	R _{eJC}	Junction to case (Note 1)	25		
	$R_{_{\theta JA}}$	Junction to ambient (Note 2)	160	°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.





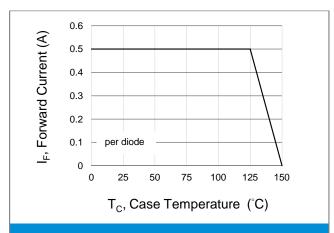


Fig.1 Forward Current Derating Curve

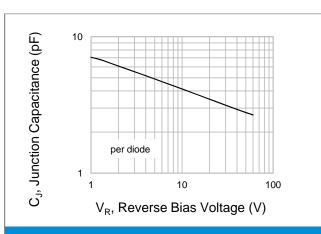


Fig.2 Typical Junction Capacitance

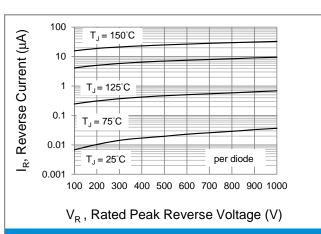


Fig.3 Typical Reverse Characteristics

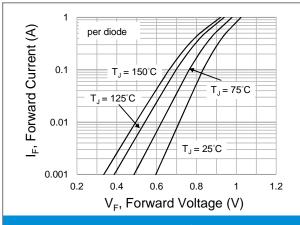


Fig.4 Typical Forward Characteristics

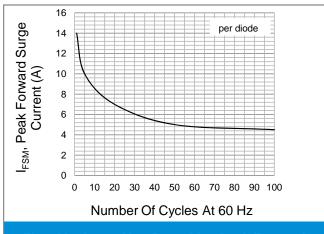
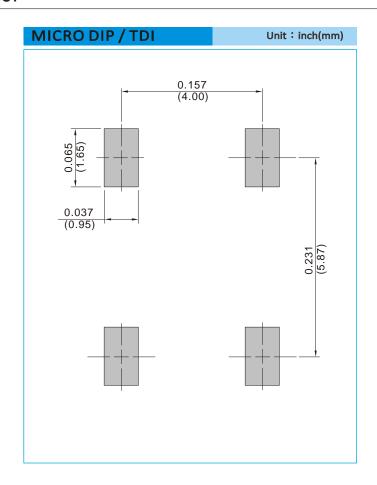


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current Uni-Directional Use Only





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-05_R1_00001 TB4S-05_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1st 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)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	Ø	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			





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