



MICRO SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 100~1000 Volt CURRENT

1 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 30A peak
- 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

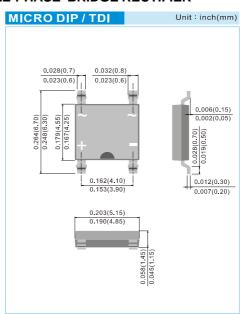
· Case: TDI, Plastic

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

· Polarity: As Marked on case

· Marking: Part number

• Weight: 0.003 ounces, 0.09 grams (Approx.)



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

PARAMETER	SYMBOL	TB1S	TB2S	TB4S	TB6S	TB8S	TB10S	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	VDC	100	200	400	600	800	1000	٧
Average Rectified Forward Current (Note 1)	lo	1					Α	
Peak Surge Forward Current (Note 2)	I FSM	30				Α		
I ² t Rating for fusing (t<8.3ms)	I²t	3.735					A ² S	
Operating Junction Temperature	TJ	150				°C		
Storage Temperature	Тѕтѕ	-55 to +150				°C		

NOTE:

- 1. 60Hz sine wave, R-load, On FR-4 P.C.B.
- 2. 60Hz sine wave, Non-repetitive 1 cycle peak value.





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

PARAMETER	SYMBOL	CONDITIONS	MAX.	UNIT
Forward Voltage	V _F	I F=1A,Pulse measurement, Rating of per diode	1	V
Reverse Current	I _R	At VRRM, Pulse measurement, Rating of per diode	10	μΑ
Typical Junction capacitance	C,	V _R =4V,f=1MHz	10	pF
Thermal Resistance	R _{eJC}	Junction to case (Note 1)	30	
	R _{eJA}	Junction to ambient (Note 1)	95	°C/W

NOTE:

1. Mounted on 48cm² FR-4 PCB.

RATING AND CHARACTERISTIC CURVES

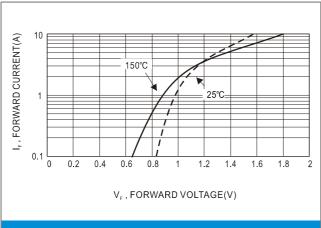


Fig.1-TYPICAL FORWARD CHARACTERISTICS

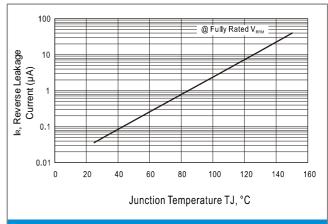
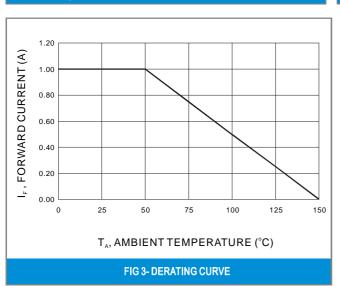


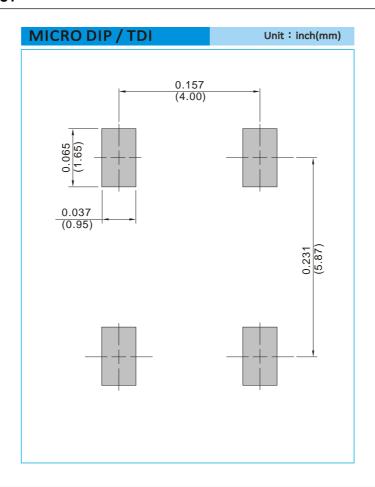
FIG-2 TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE







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

TB1S_R1_00001 TB1S_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)	Т	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				





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