



TB1S-08~TB10S-08

MICRO SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 100~1000 Volt **CURRENT** 0.8 Amper

MICRO DIP / TDI Unit : inch(mm)



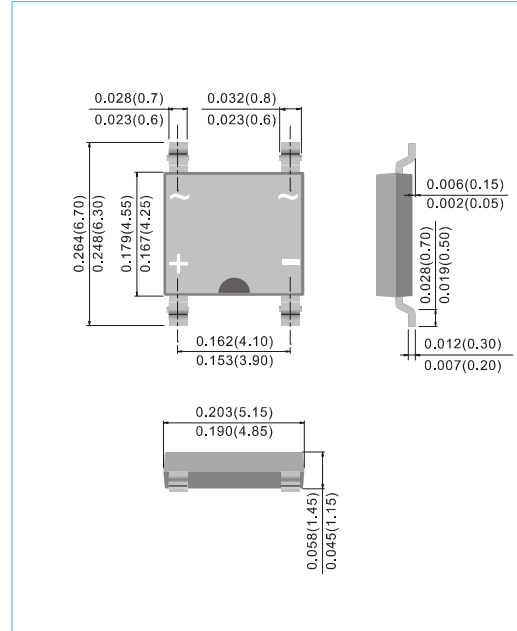
Recognized File #E139973

FEATURES

- Glass passivated chip junction
- 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 20A peak
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Plastic Material:UL Flammability Classification Rating 94V-0

MECHANICAL DATA

- Case : TDI, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity: As Marked on case
- Marking: Type number
- Weight: 0.003 ounces, 0.090 grams (Approx.)



ABSOLUTE MAXIMUM RATINGS (If not specified $T_A=25^{\circ}\text{C}$)

PARAMETER	SYMBOL	CONDITIONS	TB1S-08	TB2S-08	TB4S-08	TB6S-08	TB8S-08	TB10S-08	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	-	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	-	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	-	100	200	400	600	800	1000	V
Average Rectified Forward Current	I_O	60Hz sine wave, R-load, $T_A=25^{\circ}\text{C}$ On FR-4 P.C.B Board	0.8						A
Peak Surge Forward Current	I_{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, $T_J=25^{\circ}\text{C}$	20						A
I^2t Rating for fusing ($t < 8.3\text{ms}$)	I^2t	-	1.66						A^2S
Operating Junction Temperature	T_J	-	150						$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-	-55 to +150						$^{\circ}\text{C}$



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ELECTRICAL CHARACTERISTICS (If not specified $T_A=25^\circ\text{C}$)

PARAMETER	SYMBOL	CONDITIONS	MAX.	UNIT
Forward Voltage	V_F	$I_F=0.8\text{A}$, Pulse measurement, Rating of per diode	1	V
Reverse Current	I_R	At V_{RRM} , Pulse measurement, Rating of per diode	10	μA
Typical Junction capacitance	C_J	$V_R=4\text{V}$, $f=1\text{MHz}$	10	pF
Thermal Resistance	$R_{\theta JC}$	Junction to case	70	$^\circ\text{C/W}$
	$R_{\theta JA}$	Junction to ambient, On FR-4 P.C.B Board	95	

RATING AND CHARACTERISTIC CURVES

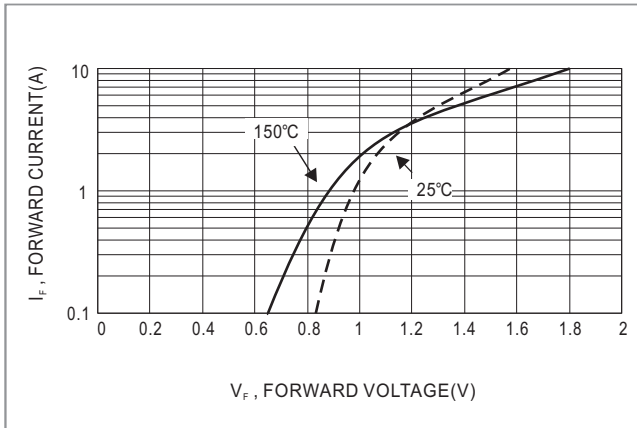


Fig.1 -TYPICAL FORWARD CHARACTERISTICS

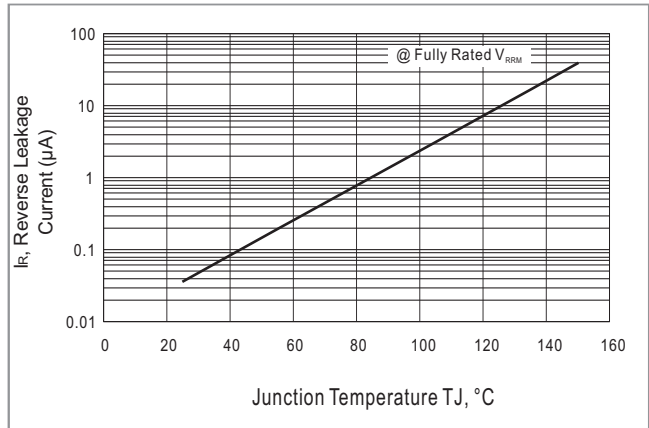


FIG-2 TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

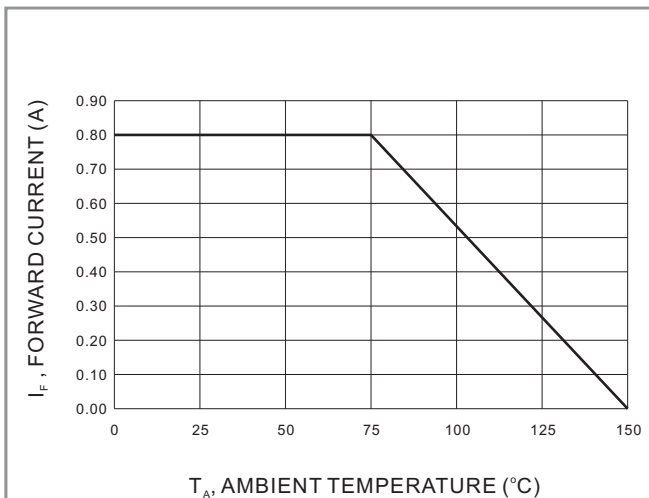


FIG 3- DERATING CURVE

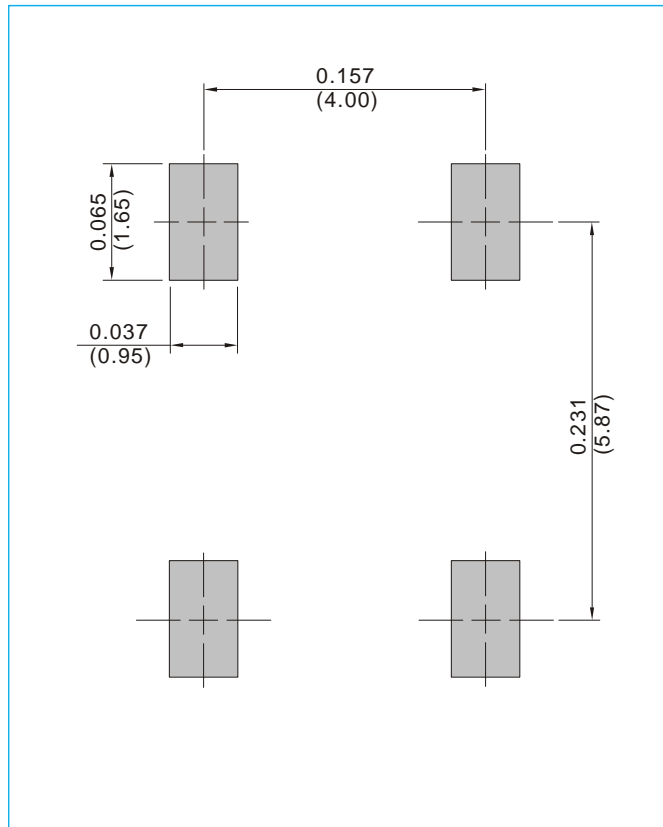


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MOUNTING PAD LAYOUT

MICRO DIP / TDI

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 4K per 13" plastic Reel
T/R - 1K per 7" plastic Reel



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Part No_packing code_Version

TB1S-08_R1_00001

TB1S-08_R2_00001

For example :

RB500V-40 **R2** **00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	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			



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