



TB1S~TB10S

MICRO SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 100~1000 Volts **CURRENT** 1.0 Amperes

TDI(MICRO DIP)

Unit : inch(mm)



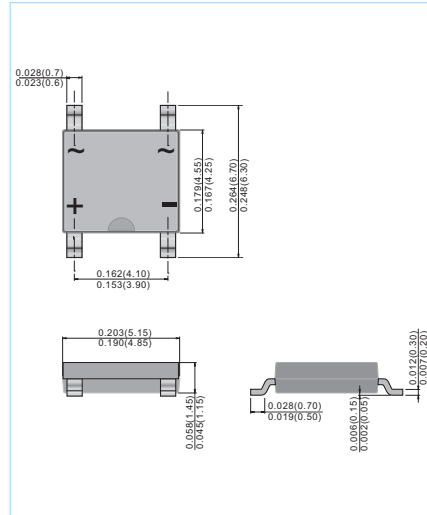
Recognized File #E139973

FEATURES

- Glass passivated chip junction
- Ideally Suited for Automatic Assembly
- Save space on printed circuit boards
- Body Thick Very Thin <1.5mm
- Low Forward Voltage Drop
- Surge Overload Rating to 30A peak
- In compliance with EU RoHS 2002/95/EC directives
- 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: 0.090 grams (Approx.)



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

PARAMETER	SYMBOL	CONDITIONS	TB1S	TB2S	TB4S	TB6S	TB8S	TB10S	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	1.0							A
Peak Surge Forward Current	I_{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, $T_J=25^{\circ}\text{C}$	30							A
I^2t Rating for fusing ($t<8.3\text{ms}$)	I^2t	-	3.735							A^2S
Operating Junction Temperature	T_J	-	150							$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-	-55 to +150							$^{\circ}\text{C}$

PAN JIT RESERVES THE RIGHT TO CHANGE THE SPECIFICATION ANY TIME WITHOUT NOTICE IN ORDER TO IMPROVE THE DESIGN AND SUPPLY THE BEST POSSIBLE PRODUCT.



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

PARAMETER	SYMBOL	CONDITIONS	MAX.	UNIT
Forward Voltage	V_F	$I_F=1\text{A}$, Pulse measurement, Rating of per diode	1.1	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

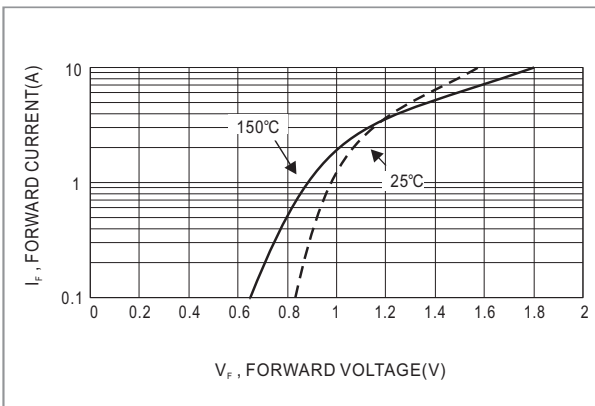


Fig.1 - TYPICAL FORWARD CHARACTERISTICS

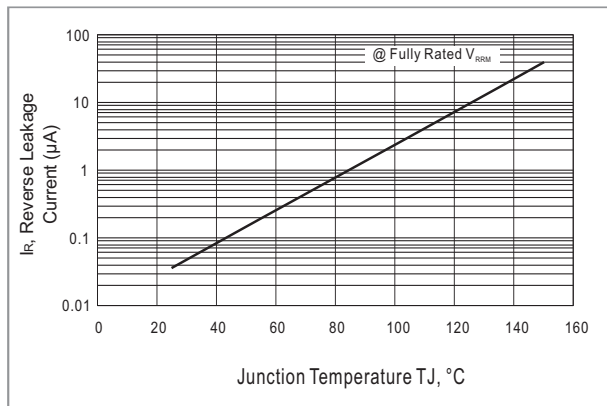


FIG-2 TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

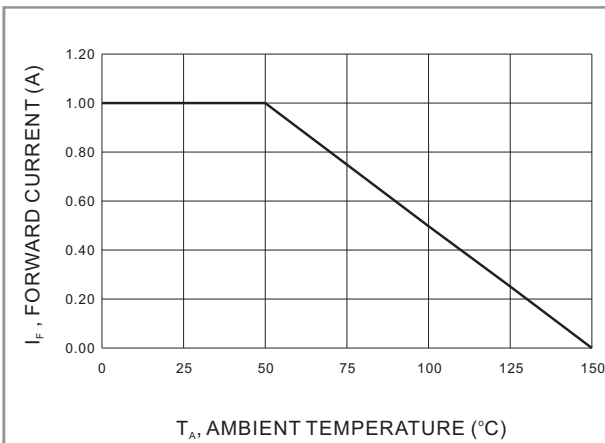
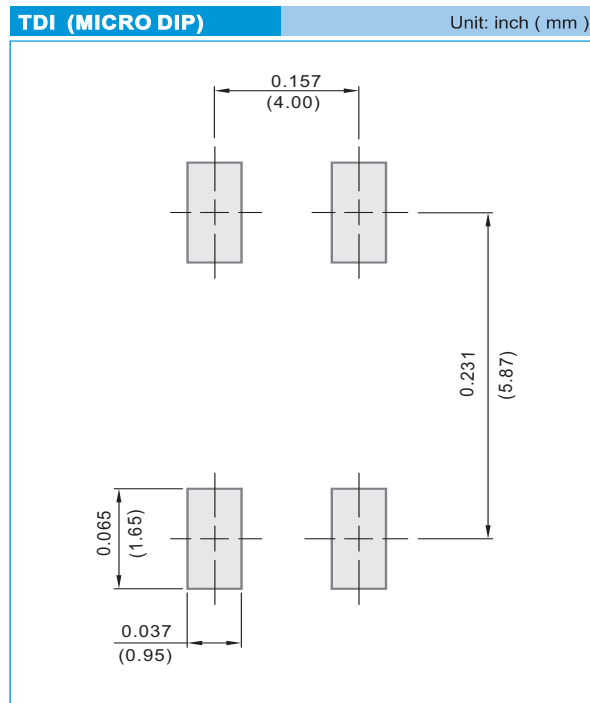


FIG 3- DERATING CURVE



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

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