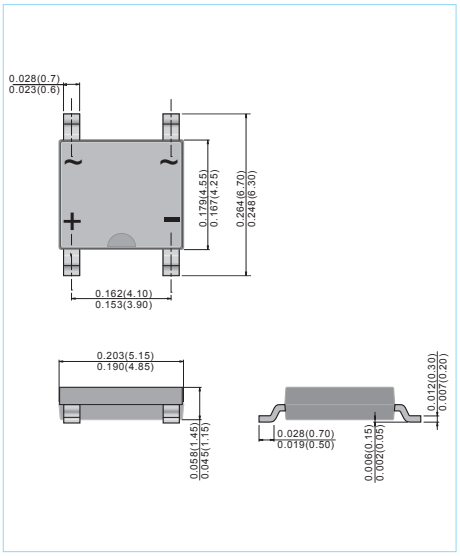
TB1S~TB10S

MICRO SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

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

Recongnized File #E139973

TDI(MICRO DIP) Unit : inch(mm)



FEATURES

- Glass passivated chip junciton
- 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°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°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°C	30						A
I^2t Rating for fusing (t<8.3ms)	I^2t	-	3.735						A^2S
Operating Junction Temperature	T_J	-	150						°C
Storage Temperature	T_{STG}	-	-55 to +150						°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.

TB1S~TB10S

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

PARAMETER	SYMBOL	CONDITIONS	MAX.	UNIT
Forward Voltage	V_F	I_F=1A,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=4V,f=1MHz	10	pF
Thermal Resistance	$R_{\theta JC}$	Junction to case	70	°C/W
	$R_{\theta JA}$	Junction to ambient,On FR-4 P.C.B Board	95	

RATING AND CHARACTERISTIC CURVES

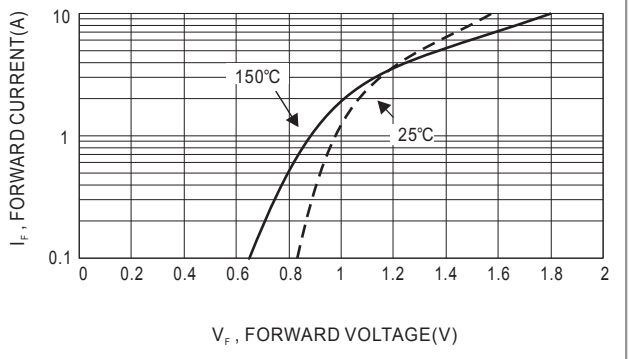


Fig.1 -TYPICAL FORWARD CHARACTERISTICS

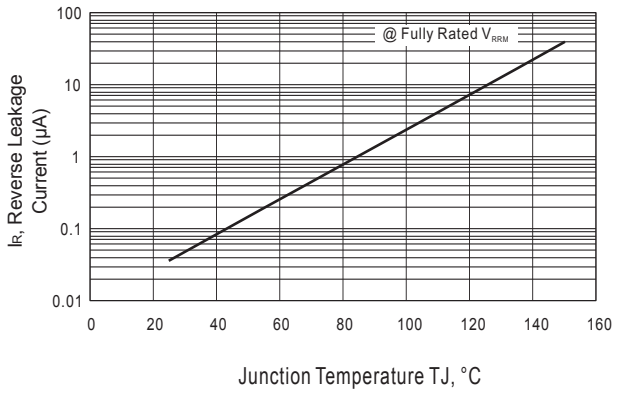


FIG-2 TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

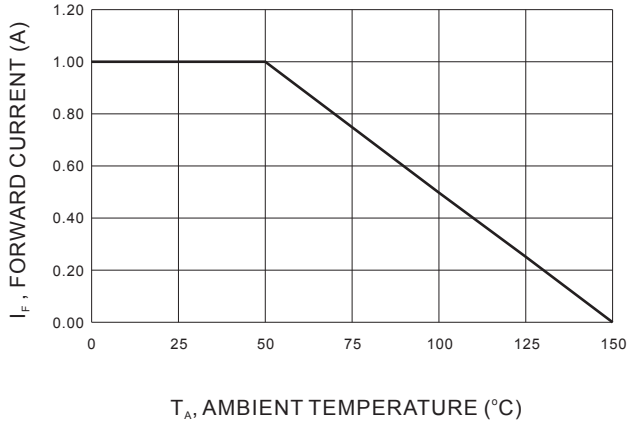
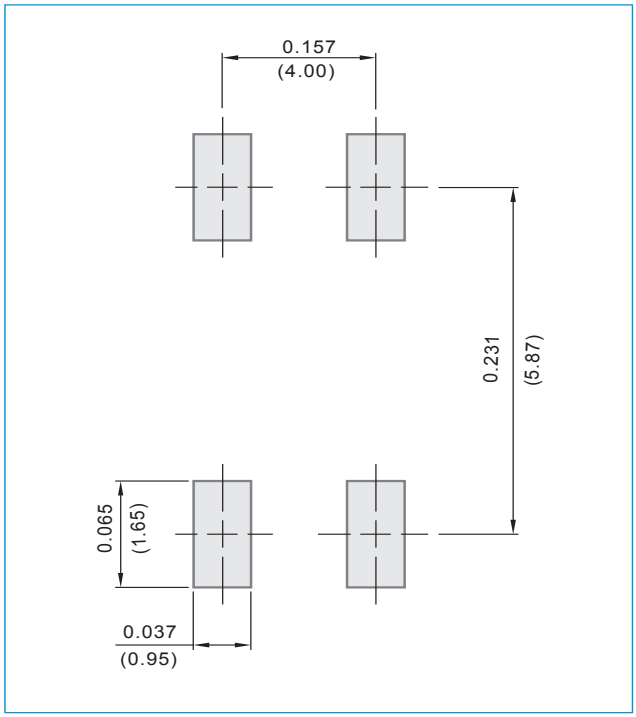


FIG 3- DERATING CURVE

TB1S~TB10S

MOUNTING PAD LAYOUT

TDI (MICRO DIP) Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 4K per 13" plastic Reel

  T/R - 1K per 7" plastic Reel

LEGAL STATEMENT