



# TB1S~TB10S

### MICRO SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 100~1000 Volts CURRENT 1.0 Ampers



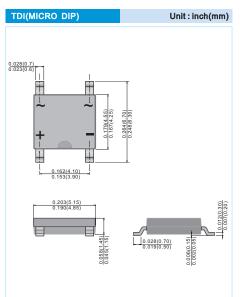
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### **FEATURES**

- · 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 Ta=25°C)

		T							
PARAMETER	SYMBOL	CONDITIONS	TB1S	TB2S	TB4S	TB6S	TB8S	TB10S	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	-	100	200	400	600	800	1000	٧
Maximum RMS Voltage	VRMS	-	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	-	100	200	400	600	800	1000	V
Average Rectified Forward Current	lo	60Hz sine wave,R- load,T <sub>A</sub> =25°C On FR-4 P.C.B Board	1.0					А	
Peak Surge Forward Current	IFSM	60Hz sine wave,Non- repetitive 1 cycle peak value,TJ=25°C	30					Α	
I <sup>2</sup> t Rating for fusing (t<8.3ms)	I²t	-	3.735					A <sup>2</sup> S	
Operating Junction Temperature	TJ	-	150					°C	
Storage Temperature	Тѕтс	-	-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.

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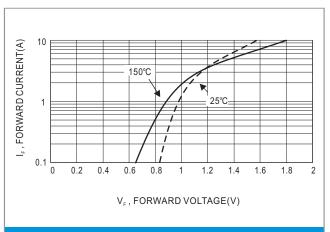


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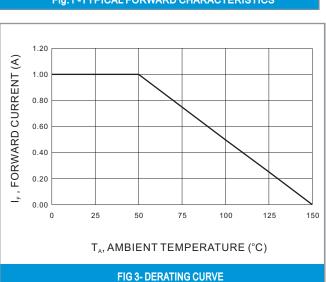
# ELECTRICAL CHARACTERISTICS (If not specified Ta=25°C)

PARAMETER	SYMBOL	CONDITIONS	MAX.	UNIT	
Forward Voltage	V <sub>F</sub>	I r=1A,Pulse measurement, Rating of per diode	1.1	V	
Reverse Current	I <sub>R</sub>	At VRRM, Pulse measurement, Rating of per diode	10	μА	
Typical Junction capacitance	C¹	V <sub>R</sub> =4V,f=1MHz	10	pF	
Thermal Resistance	R <sub>eJC</sub>	Junction to case	70	°C/W	
	$R_{_{\theta JA}}$	Junction to ambient,On FR-4 P.C.B Board	95		

### **RATING AND CHARACTERISTIC CURVES**







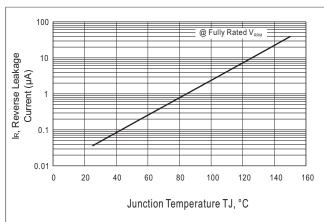


FIG-2 TYPICAL LEAKAGE CURRENT vs JUNCTION TEMPERATURE

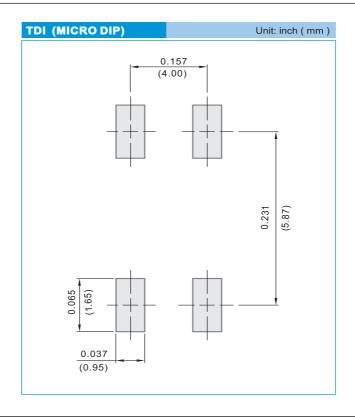
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### **MOUNTING PAD LAYOUT**



# **ORDER INFORMATION**

Packing information

T/R - 4K per 13" plastic Reel

T/R - 1K per 7" plastic Reel

## **LEGAL STATEMENT**

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