# TB1S~TB10S

## Surface Mount Flat Bridge Rectifier Reverse Voltage - 100 to 1000 V Forward Current - 0.8 A

#### **Features**

- · Ideal for printed circuit board
- · Glass passivated chip
- · Reliable low cost construction utilizing molded plastic technique
- Small size, simple installation

#### **Mechanical Data**

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: UL-94 Class V-0 recognized flame retardant epoxy
- · Polarity: Polarity symbol marked on body

<u>LBF</u> 0.026(0.65) 0.022(0.55) 0.161(4.1) 0.154(3.9) DETAIL "A", SCALE=20/1 XAM (08. 059(1 0.200(5.1 0.193(4.9)

#### Dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical characteristics**

Single-phase, half-wave, 60 Hz, resistive or inductive load rating at 25 °C, unless otherwise stated, for capacitive load, derate current by 20 %.

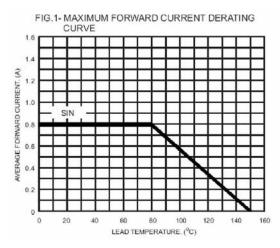
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Parameter	Symbols	TB1S	TB2S	TB4S	TB6S	TB8S	TB10S	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{\text{RMS}}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{\text{DC}}$	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current on Glass-expoxy P.C.B.	I <sub>F(AV)</sub>	0.8						А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	25						А
Maximum Instantaneous Forward Voltage at Forward Current 0.4 A	V <sub>F</sub>	0.95						V
Maximum DC Reverse Current $T_a = 25  ^{\circ}C$ at Rated DC Blocking Voltage $T_a = 125  ^{\circ}C$	I <sub>R</sub>	5 100						μA
Typical Thermal Resistance Junction to Lead On Glass-expoxy P.C.B.	$R_{ extsf{ heta}JL} \ R_{ heta JA}$	42 88						°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	- 55 to + 150						°C





Dated: 20/09/2012 Rev: 05

MOODY



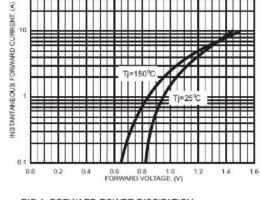
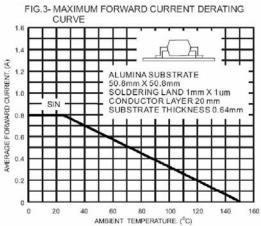


FIG.2- TYPICAL FORWARD CHARACTERISTICS

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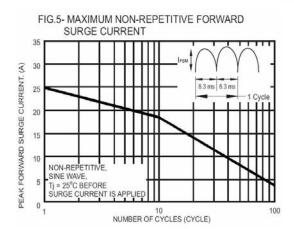
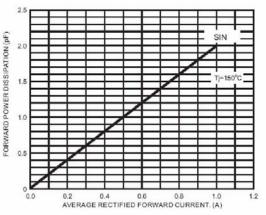


FIG.4- FORWARD POWER DISSIPATION







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