

1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER



TB1S – TB10S

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Features

- Ultra-Slim 1.5mm Max. Case Height
- **Glass Passivated Die Construction**
- High Reliability
- Low Forward Voltage Drop
- High Surge Current Capability
- **Designed for Surface Mount Application**
- Plastic Material UL Flammability 94V-0

Mechanical Data

- Case: TB-S, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.10 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

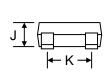
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	TB1S	TB2S	TB4S	TB6S	TB8S	TB10S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 25^{\circ}C$	lo	1.0			А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	Ігѕм	30			A			
Forward Voltage per diode $@I_F = 0.4A$ $@I_F = 1.0A$	Vfm	0.95 1.1			V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Iгм	5.0 500		μA				
Typical Junction Capacitance per leg (Note 2)	CJ			1	0			pF
Thermal Resistance Junction to Ambient (Note 1) Thermal Resistance Junction to Lead (Note 3)	R JA R JL				2.5 25			°C/W
Operating and Storage Temperature Range	TJ, TSTG			-55 to	+150			°C

Note: 1. Mounted on aluminum substrate PCB with 1.3 x 1.3mm pad areas.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

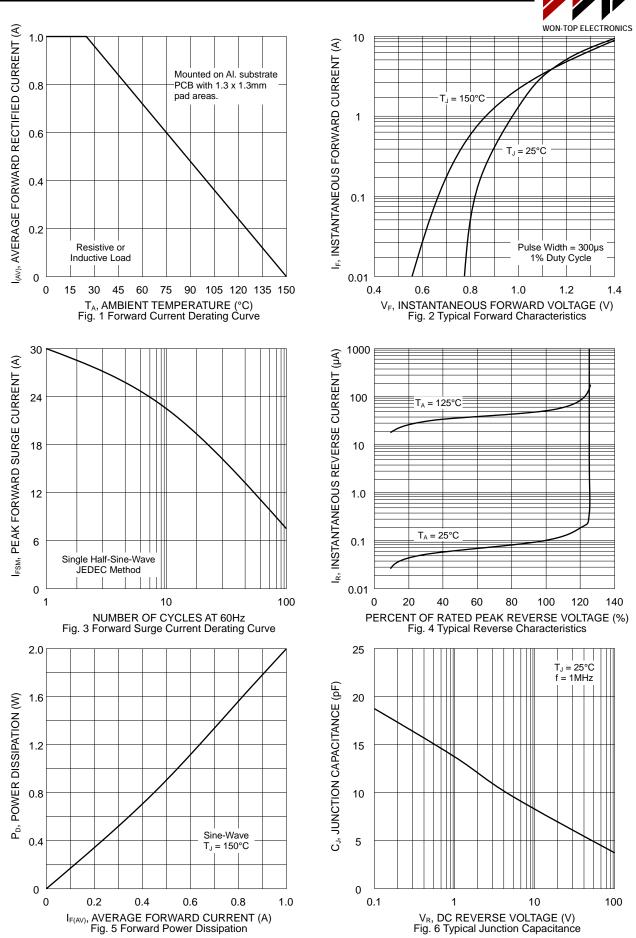
3. Mounted on glass epoxy PCB with 1.3 x 1.3mm pad areas.



В

TB-S					
Dim	Min	Max			
Α	4.80	5.20			
В	4.20	4.60			
С	0.10	0.30			
D	0.05	0.15			
E	6.00	6.40			
G	0.30	0.80			
J	1.30	1.50			
K	3.80	4.20			
L	0.60	0.70			
All Dimensions in mm					

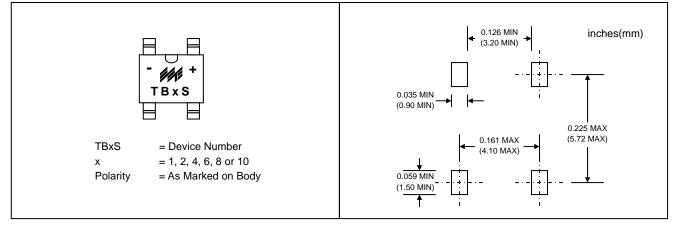
TB1S – TB10S



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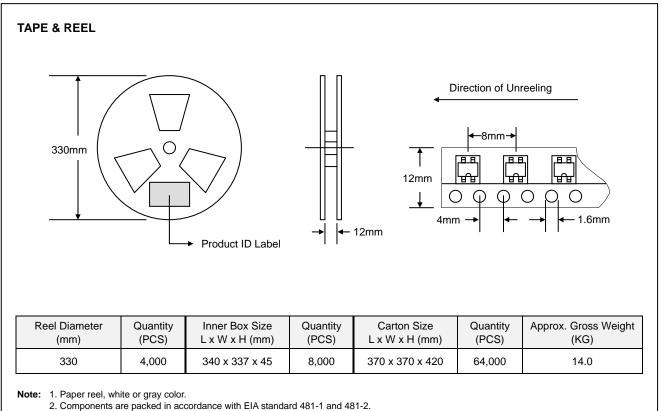


MARKING INFORMATION



RECOMMENDED FOOTPRINT

PACKAGING INFORMATION





Product No.	Package Type	Shipping Quantity
TB1S-T3	TB-S	4000/Tape & Reel
TB2S-T3	TB-S	4000/Tape & Reel
TB4S-T3	TB-S	4000/Tape & Reel
TB6S-T3	TB-S	4000/Tape & Reel
TB8S-T3	TB-S	4000/Tape & Reel
TB10S-T3	TB-S	4000/Tape & Reel

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department. To order RoHS / Lead Free version (with Lead Free finish), add "-LF"

2. suffix to part number above. For example, TB1S-T3-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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