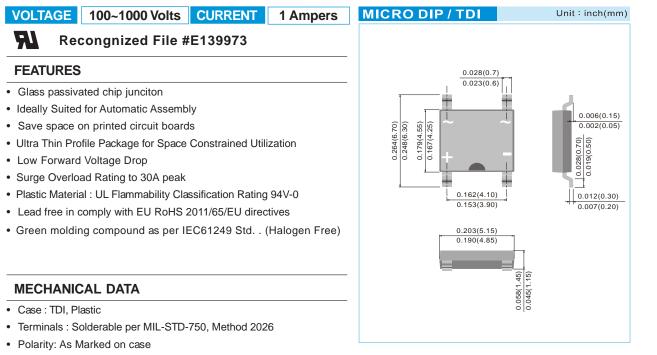




## MICRO SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER



- Marking: Type number
- Weight: 0.003 ounces, 0.090 grams (Approx.)

### ABSOLUTE MAXIMUM RATINGS (If not specified TA=25°C)

| PARAMETER                                    | SYMBOL | TB1S        | TB2S | TB4S | TB6S | TB8S | TB10S | UNIT             |
|--|--------|-------------|------|------|------|------|-------|------------------|
| Maximum Recurrent Peak Reverse Voltage       | Vrrm   | 100         | 200  | 400  | 600  | 800  | 1000  | V                |
| 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 (Note 1)   | lo     | 1           |      |      |      |      |       | А                |
| Peak Surge Forward Current (Note 2)          | I FSM  | 30          |      |      |      |      |       | А                |
| I <sup>2</sup> t Rating for fusing (t<8.3ms) | l²t    | 3.735       |      |      |      |      |       | A <sup>2</sup> S |
| Operating Junction Temperature               | TJ     | 150         |      |      |      |      |       | °C               |
| Storage Temperature                          | Тѕтс   | -55 to +150 |      |      |      |      | °C    |                  |

#### NOTE:

- 1. 60Hz sine wave, R-load, On FR-4 P.C.B.
- 2. 60Hz sine wave, Non-repetitive 1 cycle peak value.



# TB1S~TB10S

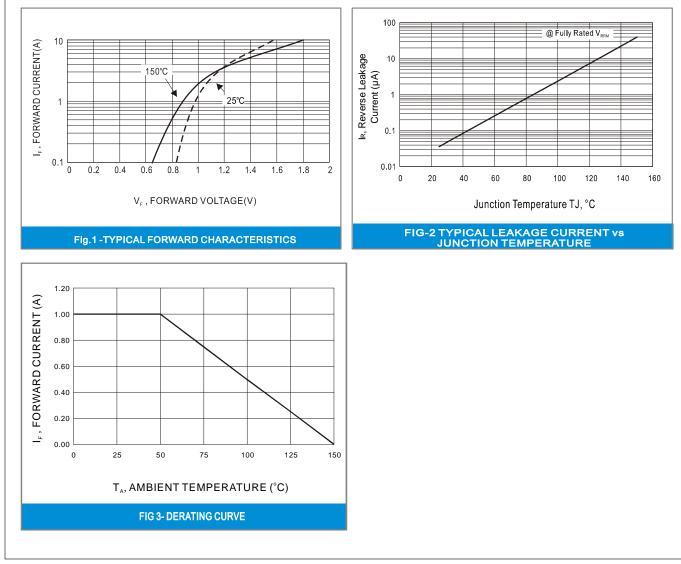
## ELECTRICAL CHARACTERISTICS (If not specified TA=25°C)

| PARAMETER                    | SYMBOL            | CONDITIONS                                      | MAX. | UNIT |
|------------------------------|-------------------|---|------|------|
| Forward Voltage              | V <sub>F</sub>    | I F=1A,Pulse measurement, Rating of per diode   | 1    | V    |
| Reverse Current              | I <sub>R</sub>    | At VRRM, Pulse measurement, Rating of per diode | 10   | μΑ   |
| Typical Junction capacitance | C                 | V <sub>R</sub> =4V,f=1MHz                       | 10   | pF   |
| Thermal Resistance           | R <sub>ejc</sub>  | Junction to case (Note 1)                       | 30   |      |
|                              | $R_{_{\thetaJA}}$ | Junction to ambient (Note 1)                    | 95   | °C/W |

#### NOTE:

1. Mounted on 48cm<sup>2</sup> FR-4 PCB.

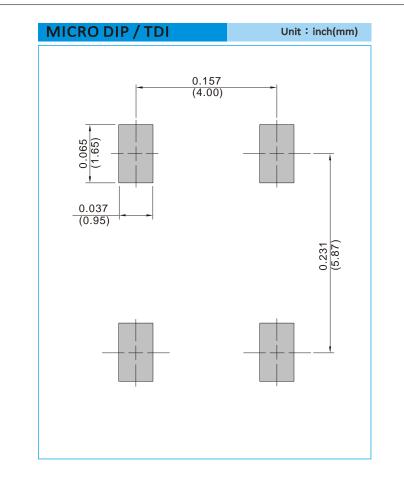
### **RATING AND CHARACTERISTIC CURVES**





## TB1S~TB10S

#### MOUNTING PAD LAYOUT



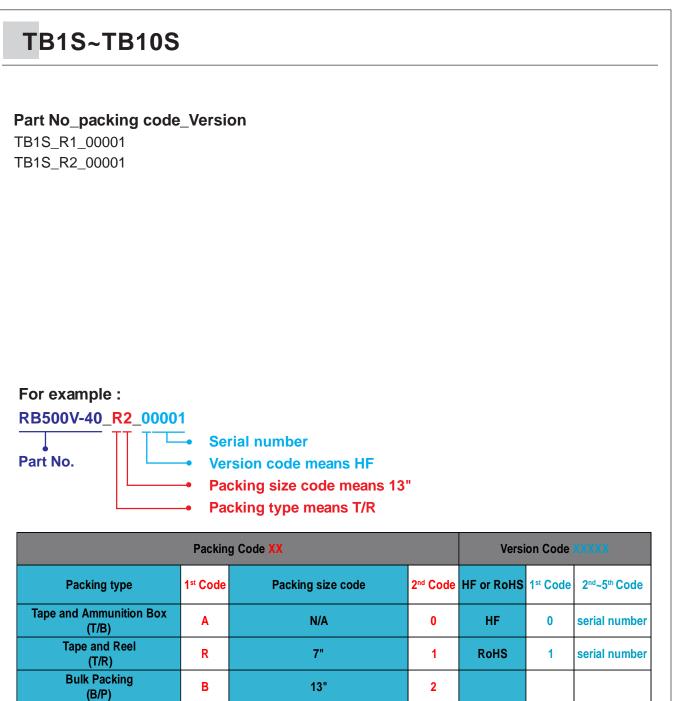
#### **ORDER INFORMATION**

Packing information

T/R - 4K per 13" plastic Reel

T/R - 1K per 7" plastic Reel





26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

Х

Υ

U

D

Tube Packing

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

Т

S

L

F





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