YEA SHIN TECHNOLOGY CO., LTD

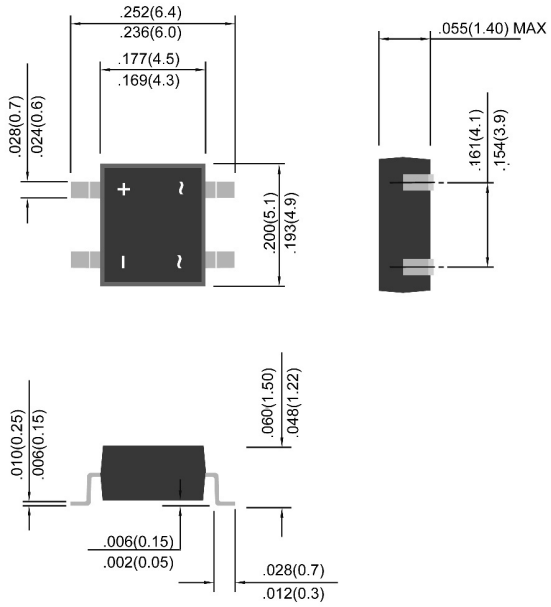
TB22S THRU TB220S

Thin Mini-Dip Surface Mount Schottky Bridge Rectifiers
20 to 100 Voltage 2.0 Ampere Current

Features

- ✧ Plastic material used carries Underwriters Laborato recognition 94V-0
- ✧ Surge overload rating-- 50 amperes peak
  Ideal for printed circuit board
  Exceeds environmental standards of MIL-S-19500
- ✧ Pb free product at available : 99% Sn above meet RoHS environment substance directive request
- ✧ High temperature soldering guaranteed:
  260℃/10 seconds /0.375"(9.5mm) lead length
  at 5 lbs., (2.3kg) tension

Thin Mini-Dip (THIN MD)



Dimensions in inches and (millimeters)

Mechanical Data

- ✧ Case: Molded plastic body
- ✧ Terminal: Pure tin plated, lead free, Leads solderable per MIL-STD-202 Method 208
- ✧ Mounting position : as Marking
- ✧ Weight: 0.10 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, Resistive or inductive load.

For capacitive load, derate current by 20%

Type Number / **Marking Code**	**Symbol**	**TB22S** / **B22S**	**TB24S** / **B24S**	**TB26S** / **B26S**	**TB28S** / **B28S**	**TB210S** / **B210S**	**TB220S** / **B220S**	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	200	V
Maximum RMS Voltage	V_{RMS}	14	28	42	56	71	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	200	V
Maximum Average Forward Rectified Current On aluminum substrate	$I_{(AV)}$	2.0						A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50						A
Maximum Instantaneous Forward Voltage @ 0.4A	V_F	0.50		0.70	0.85		0.92	V
Maximum DC Reverse Current @ T_A=25℃ at Rated DC Blocking Voltage	I_R	200						uA
Typical Thermal resistance Junction to Lead On aluminum substrate On Glass-Epoxy substrate	$R\theta_{JL}$ $R\theta_{JA}$	25 62.5 80						℃/W
Operating Temperature Range	T_J	-55 to +150						℃

DEVICE CHARACTERISTICS

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RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - Forward Current Derating Curve

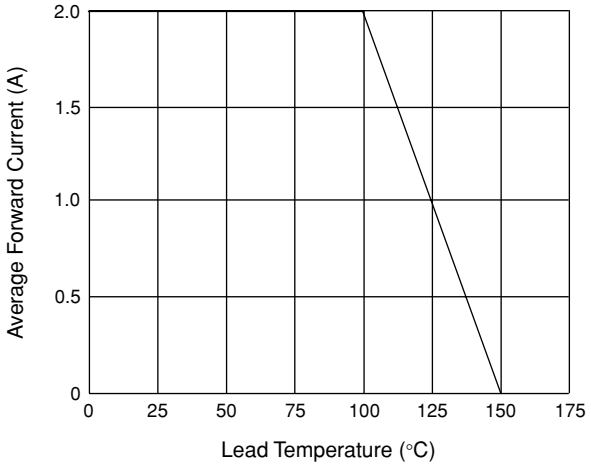


Fig. 2 - Forward Characteristics

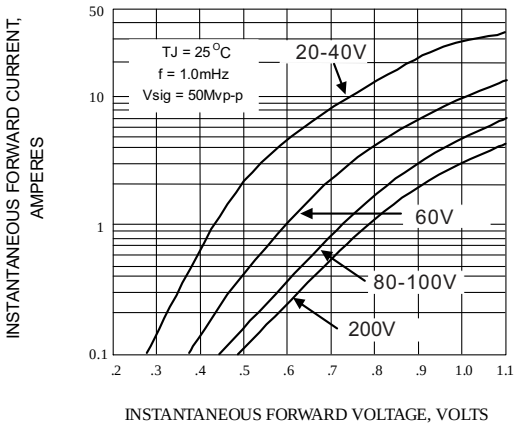


Fig. 3 - Non-Repetitive Surge Current

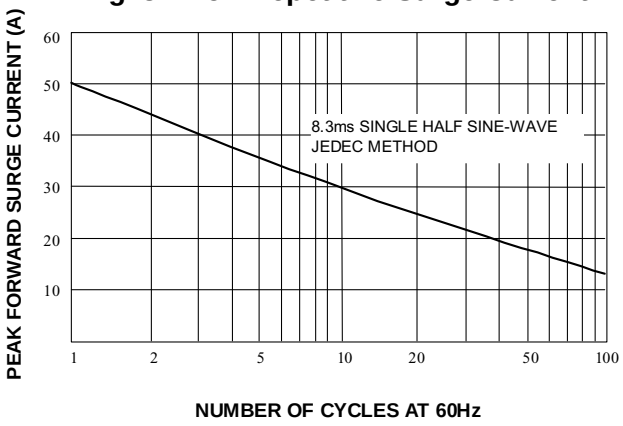
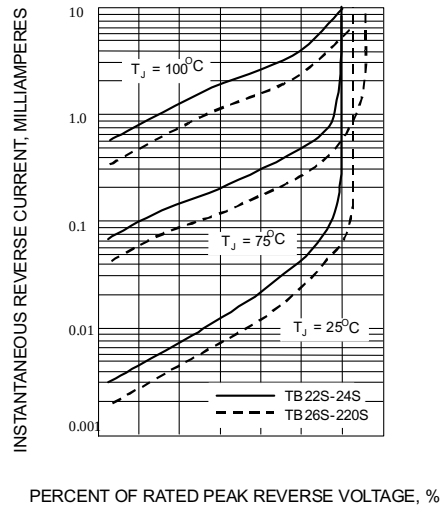
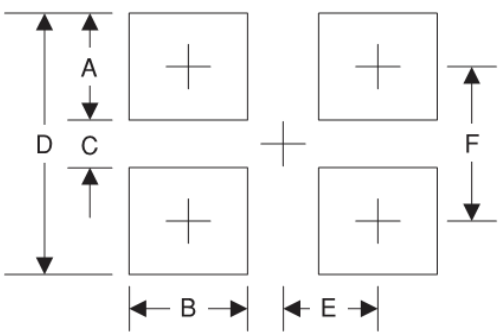


Fig. 4 - Typical Reverse Characteristics



Suggested PAD Layout



Symbol	Unit(mm)
A	1.5
B	0.9
C	4.22
D	7.22
E	2.05
F	5.72