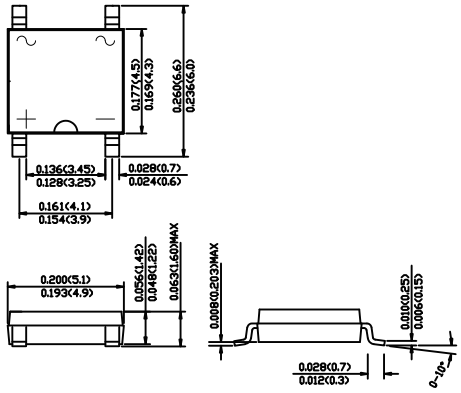
TB14S THRU TB120S

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 40 to 200 Volts Current - 1.0 Ampere

ABS



Dimensions in inches and (millimeters)

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260℃/10 seconds at 5 lbs., (2.3kg) tension
- Small size, simple installation
- High surge current capability

MECHANICAL DATA

Case: Molded plastic body
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols marked on case
Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load, for capacitive load derate current by 20%.

MDD Catalog Number	SYMBOLS	TB14S	TB16S	TB18S	TB110S	TB120S	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	80	100	200	VOLTS
Maximum RMS voltage	V_{RMS}	28	42	56	70	140	VOLTS
Maximum DC blocking voltage	V_{DC}	40	60	80	100	200	VOLTS
Maximum average forward rectified current	$I_{F(AV)}$	1.0					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	40		30			Amps
Maximum instantaneous forward voltage drop per leg at 1A	V_F	0.55	0.70	0.85			Volts
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=100℃	I_R	0.3 10		0.2 5		0.1 2	mA mA
Typical junction capacitance	C_j	110		80			pF
Typical thermal resistance	$R\theta_{JA}$	95					℃/W
Operating temperature range	T_J	-55 to +125					℃
storage temperature range	T_{STG}	-55 to +150					℃

NOTE:1.Measured at 1MHz and applied reverse voltage of 4 V D.C.

2.Mounted on glass epoxy P C board with 4 X (5X5mm) copper pad.

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RATINGS AND CHARACTERISTIC CURVES TB14S THRU TB120S

Fig.1 Forward Current Derating Curve

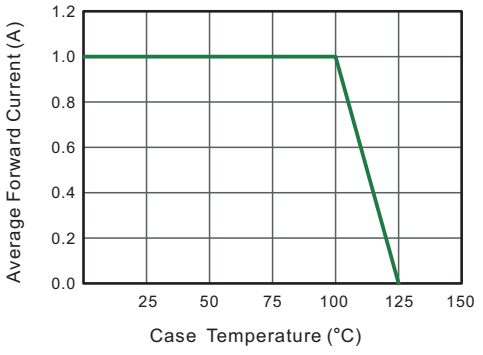


Fig.2 Typical Reverse Characteristics

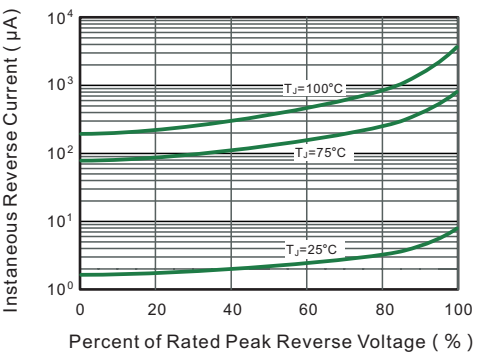


Fig.3 Typical Forward Characteristic

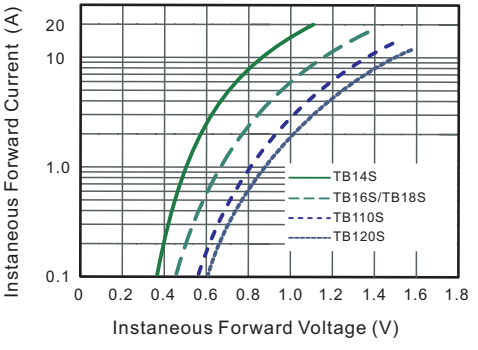


Fig.4 Typical Junction Capacitance

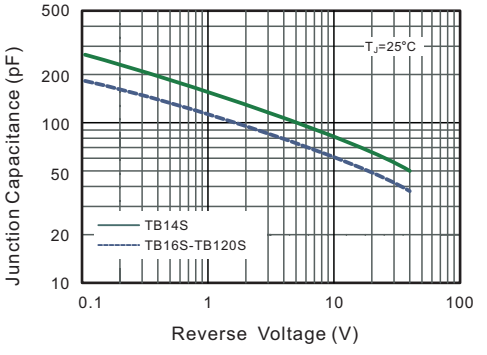


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

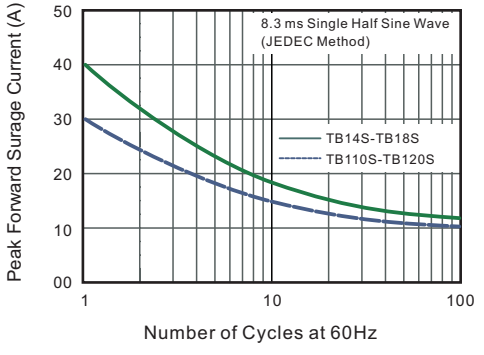
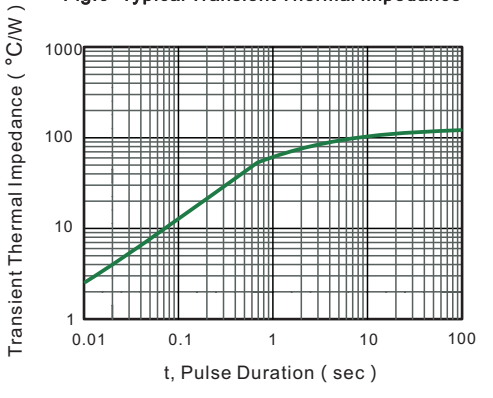


Fig.6- Typical Transient Thermal Impedance



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