

TBM810

SINGLE PHASE 8.0AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

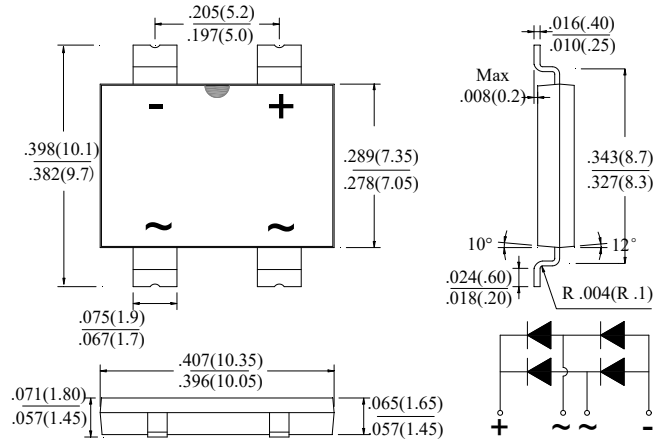
FEATURE

- Surface mount bridge, small package;
- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing molded plastic technique.
- High surge current capability.
- High temperature soldering guaranteed: 260°C/10 seconds at terminals.

MECHANICAL DATA

- Case Material: “Green” Molding compound, UL flammability classification rating 94V-0, “Free halogen”
- Moisture sensitivity level: level 1, per J-STD-020
- Polarity: Polarity as marked on the body

TBM



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	SYM BOL	TBM810	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC blocking Voltage	V_{DC}	1000	V
Maximum Average Forward rectified Current	$I_{F(AV)}$	8.0	A
Peak Forward Surge Current @ $T_J=25^\circ\text{C}$ 8.3ms single half sine-wave @ $T_J=125^\circ\text{C}$	I_{FSM}	170	A
Peak Forward Surge Current @ $T_J=25^\circ\text{C}$ 1.0ms single half sine-wave @ $T_J=125^\circ\text{C}$		140	
Maximum Instantaneous Forward Voltage @ $I_F=8.0\text{A DC}$ Forward Voltage @ $I_F=4.0\text{A DC}$	V_F	1.1 1.0	V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at rated DC blocking voltage @ $T_J=125^\circ\text{C}$	I_R	5.0 200.0	μA
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	120	A^2Sec
Typical Junction Capacitance Per Leg (Note1)	C_J	55	pF
Typical Thermal Resistance (without Heatsink)	R_J	R_{JA}	$^\circ\text{C}/\text{W}$
		55	
Typical Thermal Resistance (Note2)		10	6
Storage Temperature	T_{STG}	-55 to +150	$^\circ\text{C}$
Operating Junction Temperature	T_J	-55 to +150	$^\circ\text{C}$

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

Unit mounted on 15mm x 12mm x 1.6mm AL Pad attached on 100mm x 100mm x 30mm copper plate

Ratings and Characteristics Curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

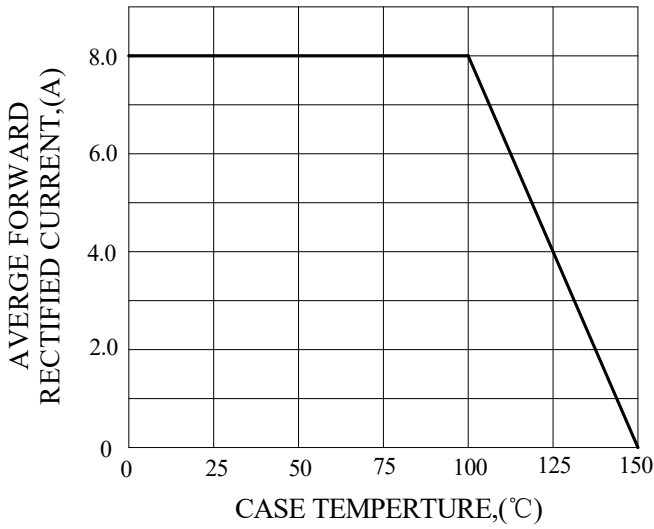


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

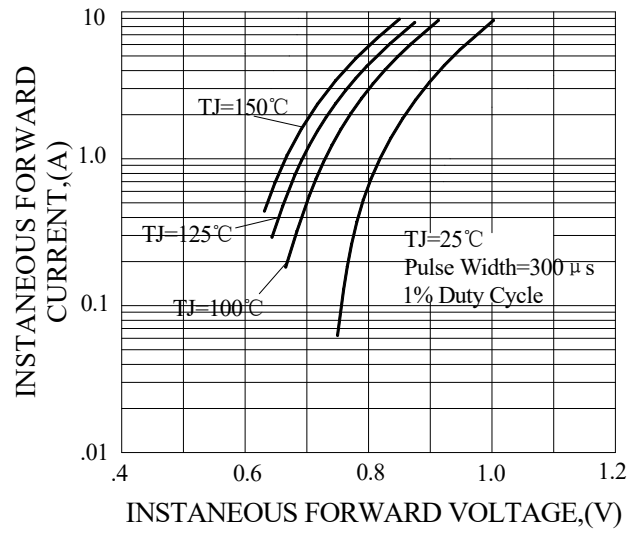


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

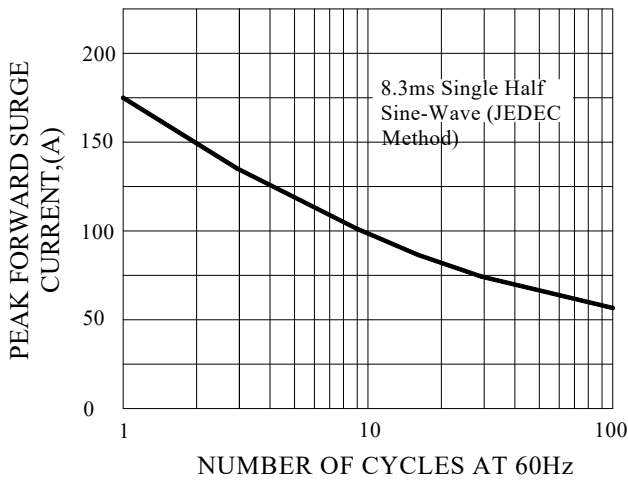


FIG.4-TYPICAL JUNCTION CAPACITANCE

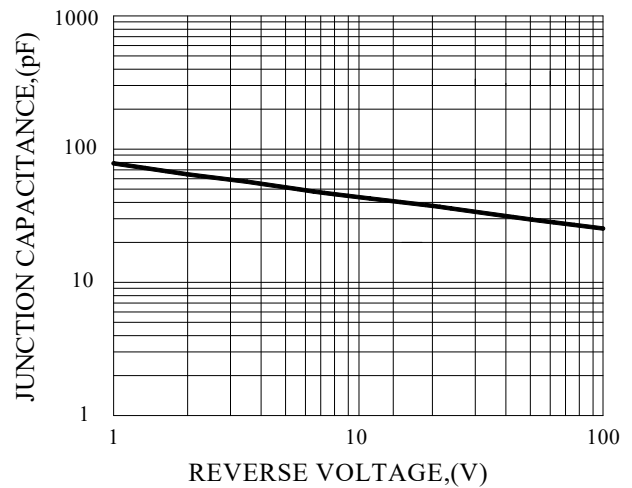
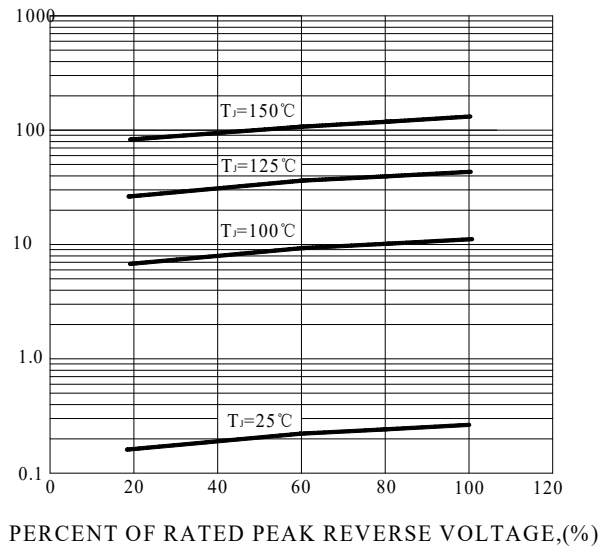
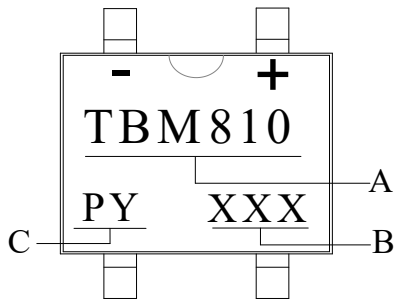


FIG.5-TYPICAL REVERSE CHARACTERISTICS



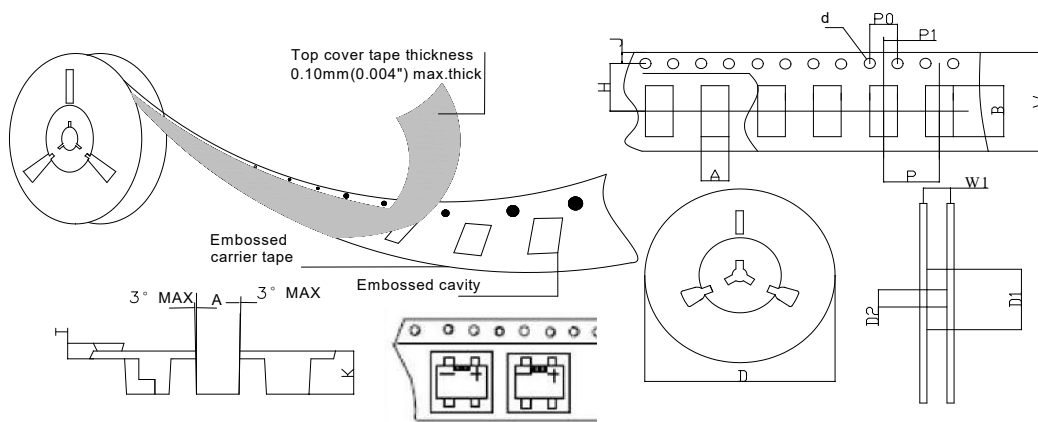
Marking and packaging illustration

1、Marking



SYMBOL	Explanation
A	Product Name
B	Date Code
C	Trademark

2、Packaging



SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM BOL	TBM	ITEM	SYM BOL	TBM
Carrier width	A	10.5(0.413)Max	Carrier depth	K	2.25(0.088)Typ
Carrier length	B	11.0(0.433)Max	Punch hole pitch	P	16.00(0.630)Typ
Sprocket hole	d	ø1.6(0.063)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	330.0(13.0)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	75.0(2.953)Min	Overall tape thickness	T	0.30(0.012)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	24.0(0.945)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	25.5(1.004)Min
Punch hole position	H	11.50(0.452)Typ			

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