



TMBF202 THRU TMBF210

PINGWEI ENTERPRISE

SINGLE PHASE 2.0AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

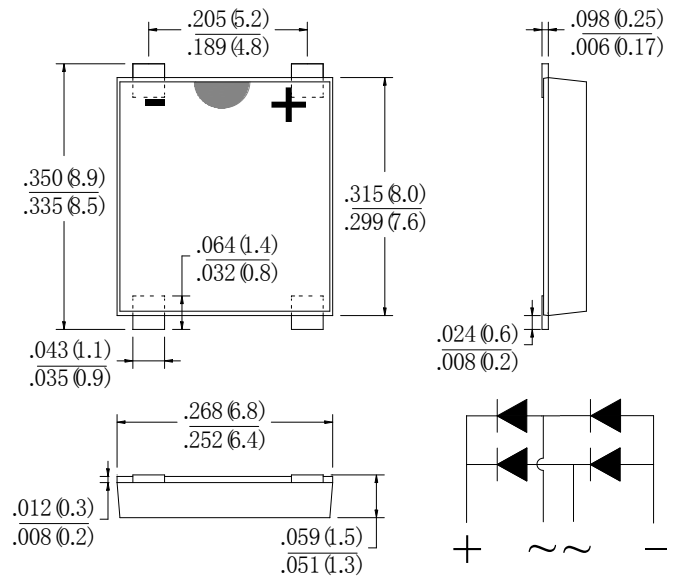
FEATURE

- . 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 2a, per J-STD-020
- . Polarity: Polarity as marked on the body
- . Weight: 0.204g (approximately)

TMBF



Dimensions in inches and (millimeters)

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	TMBF 202	TMBF 204	TMBF 206	TMBF 208	TMBF 210	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	160	320	420	560	700	V
Maximum DC blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average Forward rectified Current @ T _A =40°C	$I_{F(AV)}$	2.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	60					A
Maximum Instantaneous @I _F =1.0A DC Forward Voltage @I _F = 2.0A DC	V_F	1.0 1.1					V
Maximum DC Reverse Current @T _J =25°C at rated DC blocking voltage @T _J =125°C	I_R	5.0 500.0					μA
I ² t Rating for Fusing (t < 8.3ms)	I^2t	14.9					A ² Sec
Typical Junction Capacitance Per Leg (Note1)	C_J	25					pF
Typical Thermal Resistance (Note2)	R_{JA}	55					°C /W
	R_{JC}	10					
Storage Temperature	T_{STG}	-55 to +150					°C
Operating Junction Temperature	T_J	-55 to +150					°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal resistance from Junction to case, lead and ambient in accordance with JESD-51.
Unit mounted on glass-epoxy substrate with 1oz/ft²-20×20mm copper pad per pin with heat sink.

RATING AND CHARACTERISTIC CURVES (TMBF202 THRU TMBF210)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

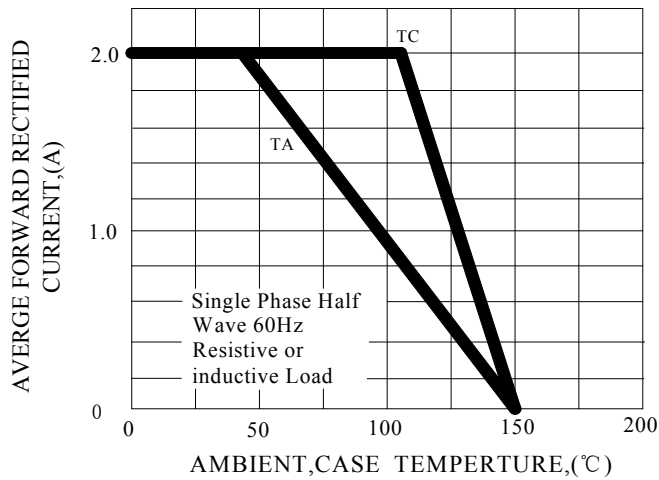


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

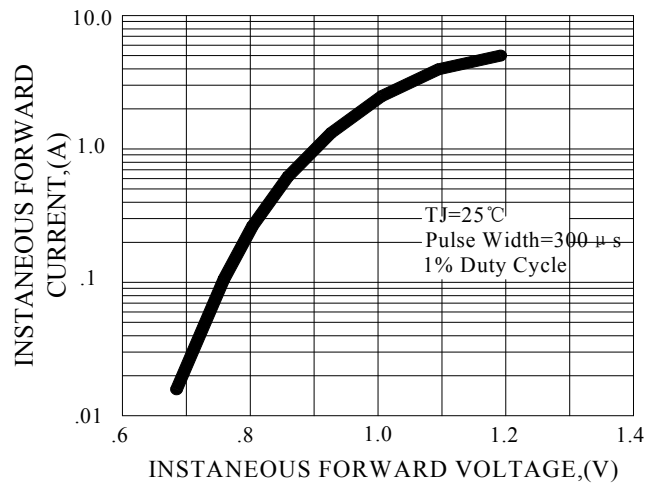


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

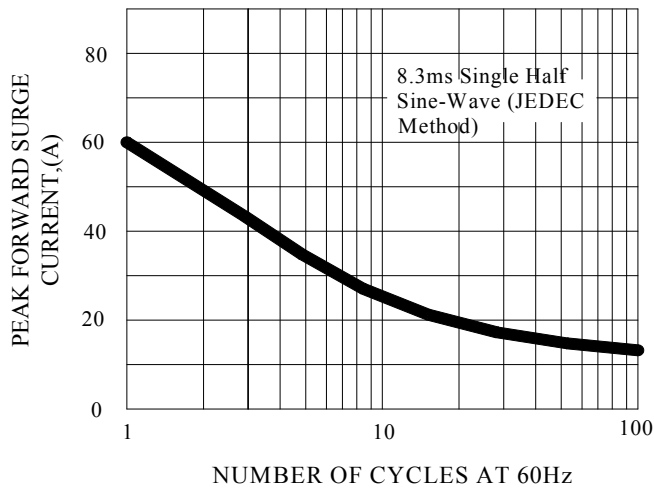


FIG.4-TYPICAL REVERSE CHARACTERISTICS

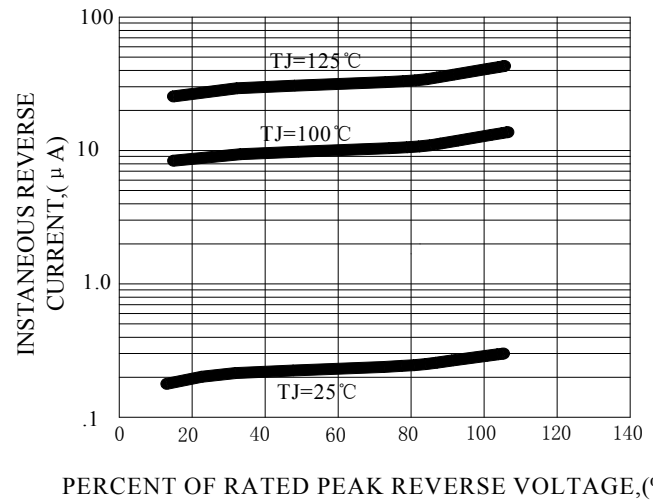


FIG.5-TYPICAL JUNCTION CAPACITANCE

