

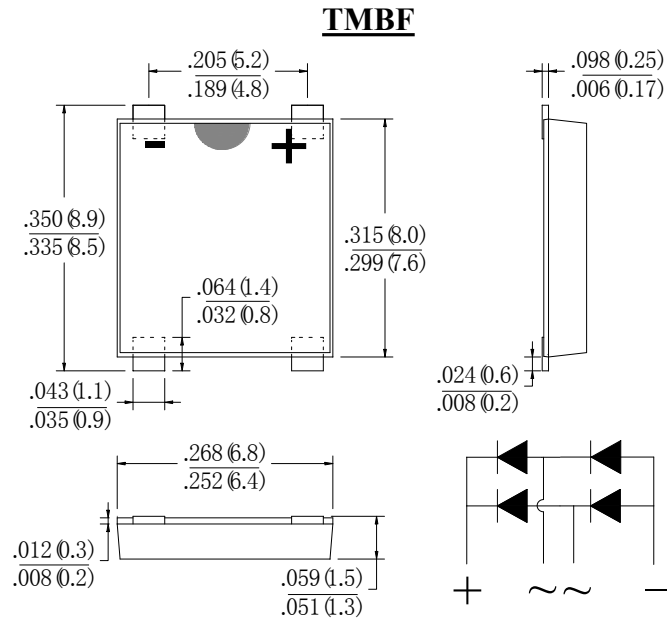
SINGLE PHASE 4.0AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

Features:

- . 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)



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 402	TMBF 404	TMBF 406	TMBF 408	TMBF 410	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 @ $T_A=40^\circ C$	$I_{F(AV)}$	4.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	120					A
Maximum Instantaneous Forward Voltage @ $I_F=2.0A$ DC @ $I_F=4.0A$ DC	V_F	0.95 1.00					V
Maximum DC Reverse Current @ $T_J=25^\circ C$ at rated DC blocking voltage @ $T_J=125^\circ C$	I_R	5.0 500.0					μA
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	41.5					A^2Sec
Typical Junction Capacitance Per Leg (Note1)	C_J	35					pF
Typical Thermal Resistance (Note2)	R_{JA}	15					$^\circ C/W$
	R_{JC}	7					
Storage Temperature	T_{STG}	-55 to +150					$^\circ C$
Operating Junction Temperature	T_J	-55 to +150					$^\circ C$

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 15mm*12mm*1.6mm AL pad attach 195mm*195mm*10mm steel plate

RATING AND CHARACTERISTIC CURVES (TMBF402 THRU TMBF410)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

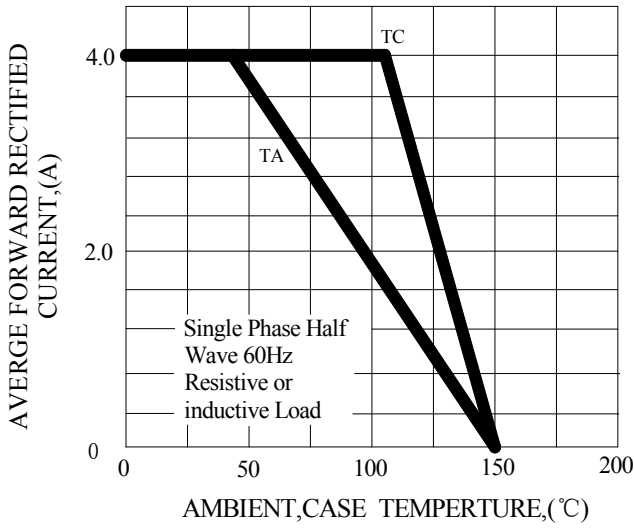


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

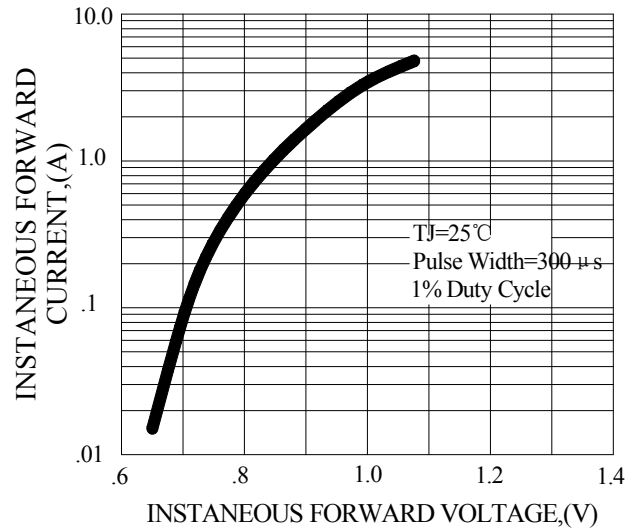


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

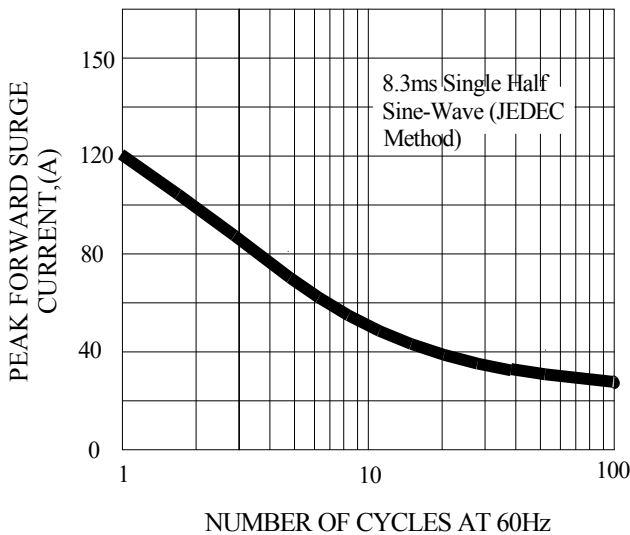


FIG.4-TYPICAL REVERSE CHARACTERISTICS

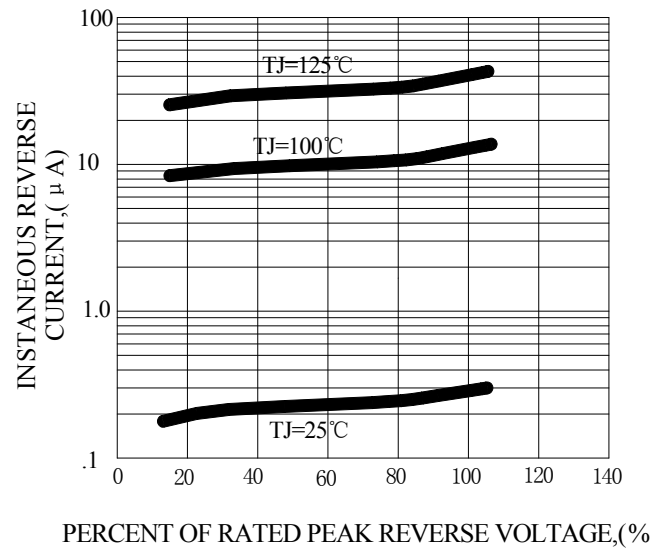


FIG.5-TYPICAL JUNCTION CAPACITANCE

