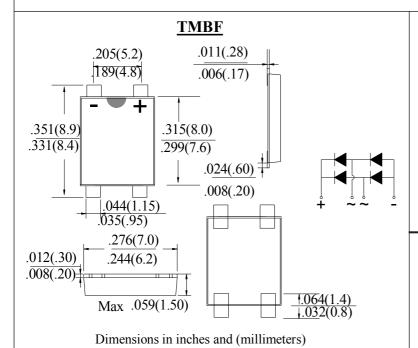


TMBF310

SINGLE PHASE 3.0 AMPS. 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:
- 250°C/10 seconds at terminals.
- . Small size, simple installation.

MECHANICAL DATA

- . Case: Molded plastic
- . Epoxy: UL 94V-0 rate flame retardant (Halogen free)
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity: As marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

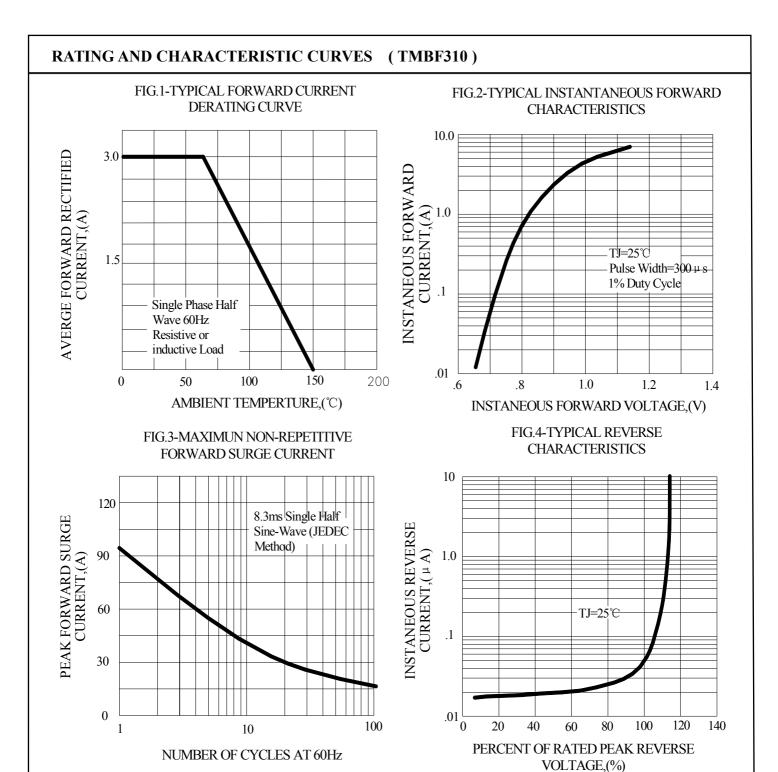
For capacitive load, derate current by 20%

Type Number	SYM BOL	TMBF310	units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	1000	V
Maximum RMS Voltage	$V_{ m RMS}$	700	V
Maximum DC blocking Voltage	$V_{ m DC}$	1000	V
Maximum Average Forward rectified Current	I _{F(AV)}	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	95	A
Maximum Instantaneous Forward Voltage at 3.0A DC	V_{F}	1.1	V
Maximum DC Reverse Current $@T_A = 25^{\circ}C$ at rated DC blocking voltage $@T_A = 125^{\circ}C$	$I_{ m R}$	5.0 100.0	μА
I ² t Rating for Fusing (t < 8.3ms)	I ² t	37.45	A ² Sec
Typical Junction Capacitance Per Leg (Note1)	C _J	50	pF
Typical Thermal Resistance (Note2)	$R_{ m JA}$	85	°C /W
	$R_{ m JC}$	22	
Storage Temperature	$T_{ m STG}$	-55 to +150	°C
Operating Junction Temperature	$T_{ m J}$	-55 to +150	°C

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient mounted on P.C.B with 0.38×0.38" (15×15mm) copper pads





The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

