

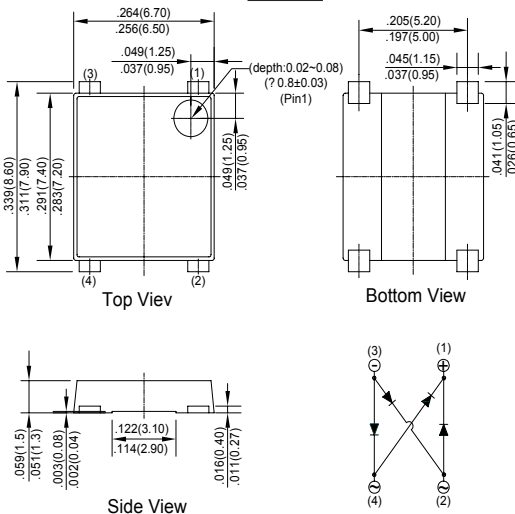


TMB32F THRU TMB310F

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER RECTIFIERS

Voltage Range - 200 to 1000 Volts Current - 2.2 Ampere

TMBF



Dimensions in inches and (millimeters)

FEATURES

- ◆ Rating to 1000V PRV
- ◆ Compact, thin profile package design
- ◆ Ideal for SMT manufacturing
- ◆ Reliable robust construction

MECHANICAL DATA

- ◆ Molding compound meets UL 94 V-0 flammability rating, Halogen-free, RoHS-compliant, and commercial grade
- ◆ Polarity indicator: As marked on body
- ◆ Weight: 216 mg

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%.

MDD Catalog Number	SYMBOLS	TMB32F	TMB34F	TMB36F	TMB38F	TMB310F	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current @ $T_C = 110^\circ C$	$I_{F(AV)}$	2.2					Amps
Peak Forward Surge Current single half sine-wave @ 8.3ms @ 1.0ms	I_{FSM}	90 180					Amps
Maximum Forward Voltage @ $T_J = 25^\circ C$ @ 1.1A DC @ 2.2A DC	V_F	0.98 1.0					Volts
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	I_R	5 500					μA μA
Typical junction Capacitance per element (Note 1)	C_J	35					pF
I^2t Rating for fusing (1ms < t < 8.3ms)	I^2t	33.6					I^2t
Typical thermal resistance(NOTE 2)	$R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$	10 15 55					$^\circ C/W$
Operating temperature range	T_J	-55 to +150					$^\circ C$
storage temperature range	T_{STG}	-55 to +150					$^\circ C$

NOTES:(1). Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(2) .Thermal Resistance test performed in accordance with JESD-51. Unit mounted on glass-epoxy substrate with 1oz/ft² 20x20 mm copper pad per pin.

(3).The typical data above is for reference only(典型值仅供参考).



RATINGS AND CHARACTERISTIC CURVES TMB32F THRU TMB310F

FIG. 1 – FORWARD CURRENT DERATING CURVE

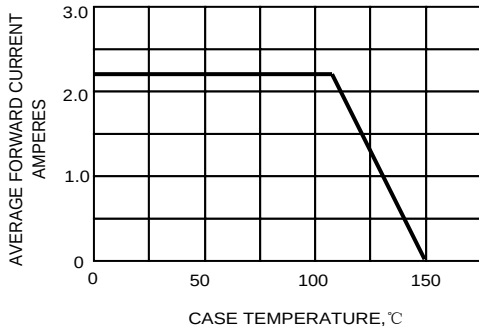


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

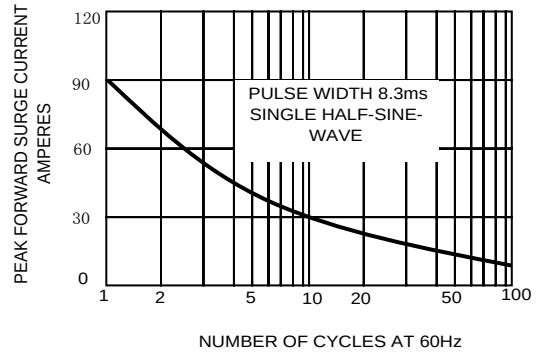


FIG.3-TYPICAL FORWARD CHARACTERISTICS

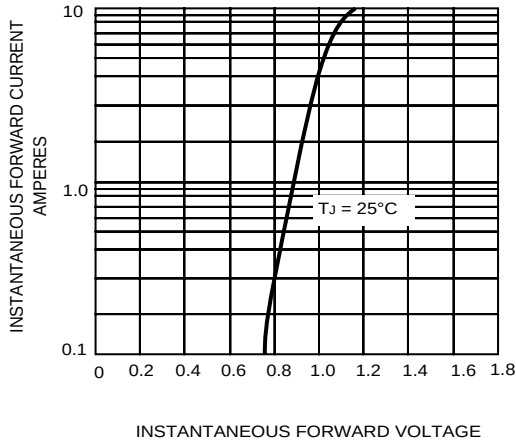


FIG.4 – TYPICAL JUNCTION CAPACITANCE

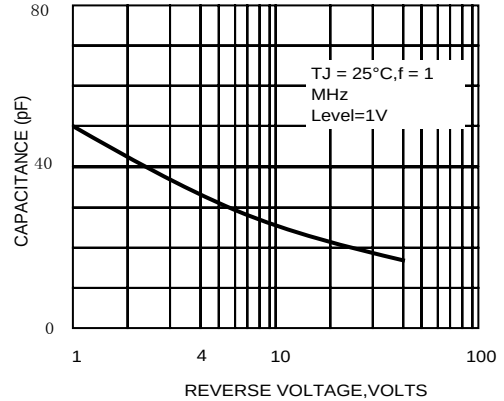
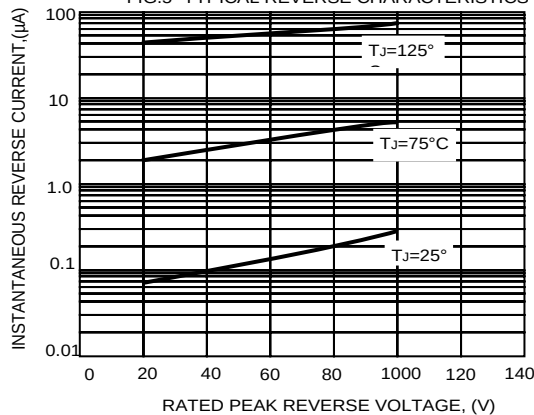


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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

