

# TMBF3005G~TMBF310G

Rev.A Dec.-2024

## / Descriptions

3.0A

DBF

3.0A Single-Phase Glass Passivated Bridge Rectifiers, DBF thin package.

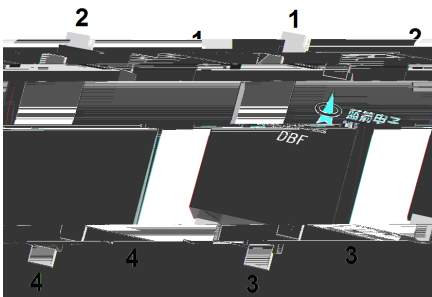
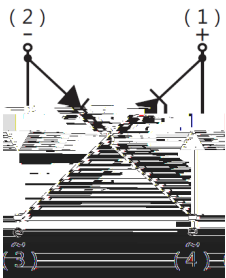
## / Features

50V ~ 1000V

3.0A

Reverse Voltage :50 to 1000V,Forward Current: 3.0A, Designed for Surface Mount Application,HF product.

General purpose.



## / Marking

See Marking Instructions.

## / Absolute Maximum Ratings(Ta=25 )

Parameter	Symbol	Rating							Unit
		TMBF 3005G	TMBF 301G	TMBF 302G	TMBF 304G	TMBF 306G	TMBF 308G	TMBF 310G	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at $T_A=40$	$I_{F(AV)}$	3.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80							A
Rating for fusing ( $t < 8.3ms$ )	$I^2t$	26.56							A <sup>2</sup> s
Typical Thermal Resistance <sup>Note1</sup>	$R_{JA}$	55							/W
	$R_{JC}$	8							/W
Typical Junction Capacitance <sup>Note2</sup>	$C_i$	35							pF
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55~+150							

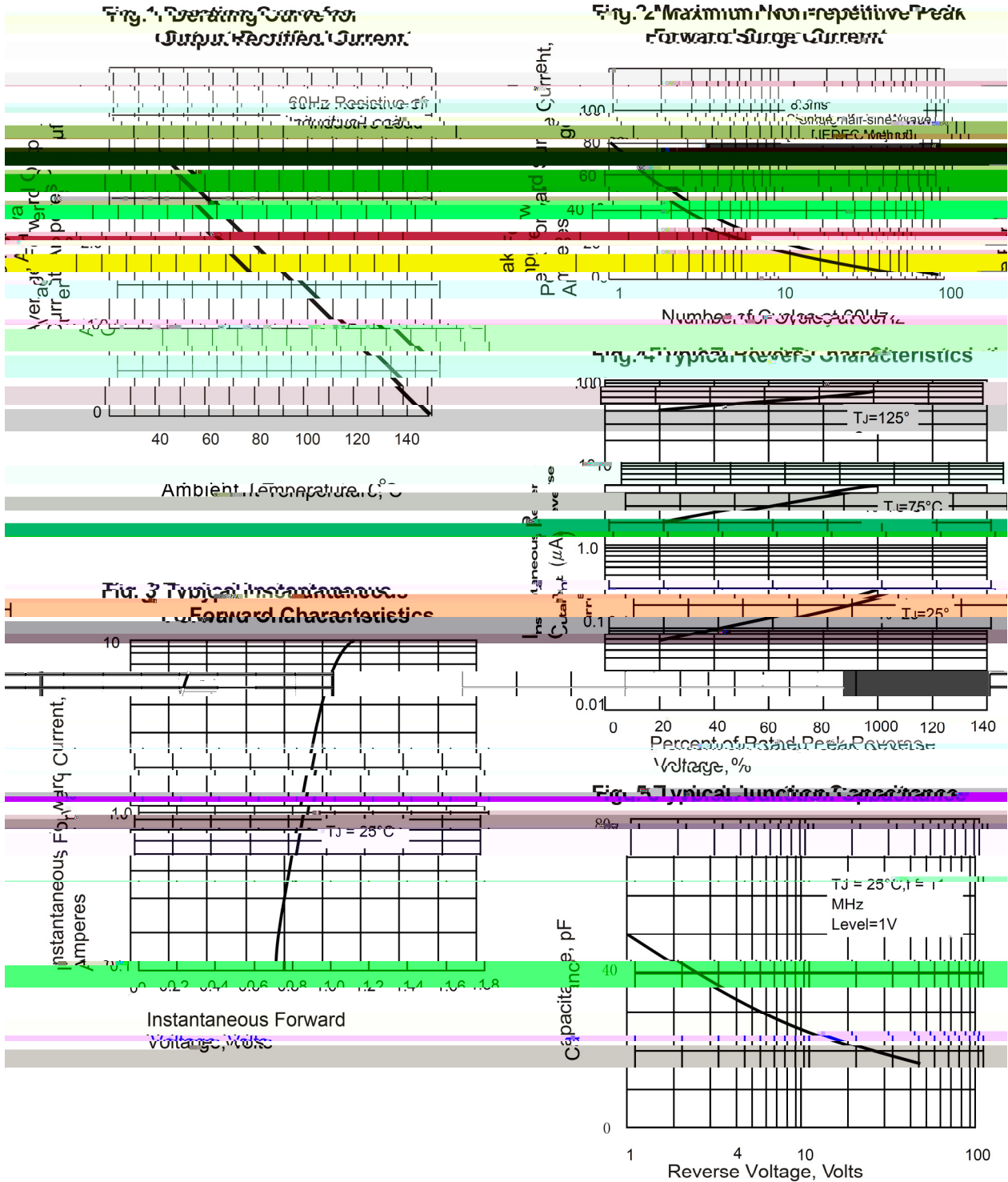
Note:

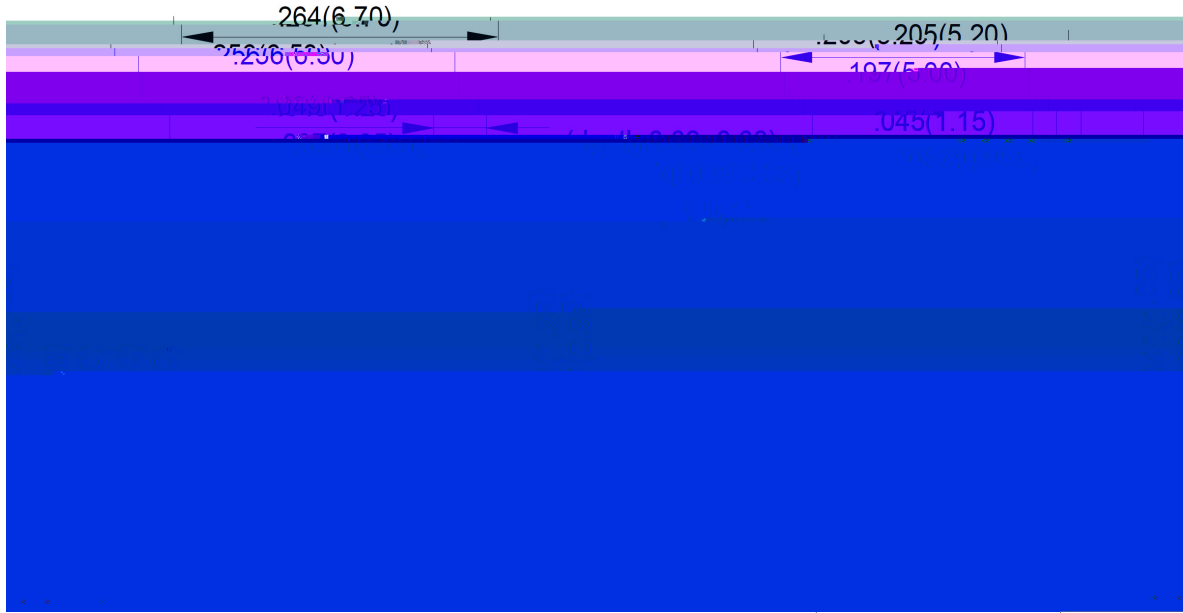
1. Thermal resistance from Junction to Ambient on P.C.board mounting.
2. Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

## / Electrical Characteristics(Ta=25 )

Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Forward Voltage	$V_F$	$I_F=1.5A$	1.05	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_a=25$	5	$\mu A$
		$T_a=125$	500	

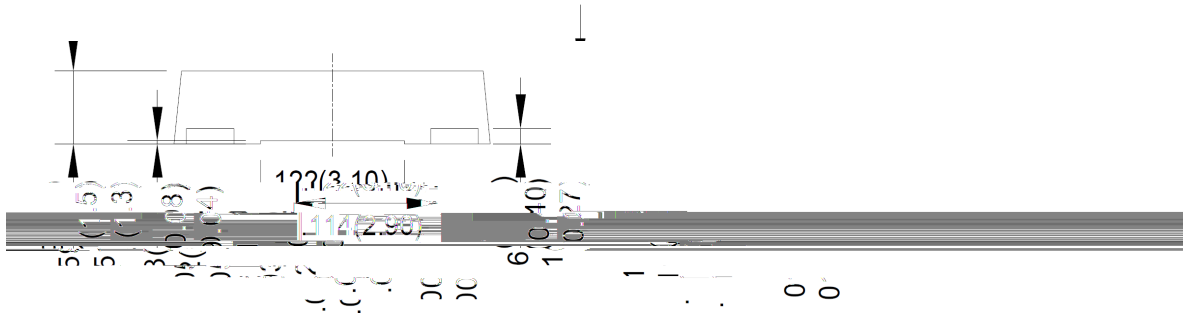
/ Electrical Characteristic Curve





Bottom View

Top View



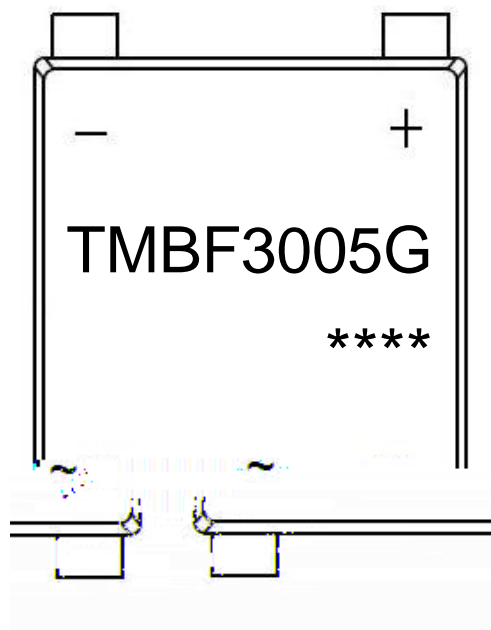
Side View



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## / Marking Instructions



TMBF3005G

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Note:

TMBF3005G

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Product Type

Lot No. Code, code change with Lot No

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