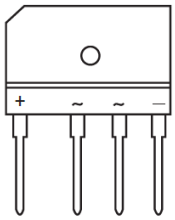
WGBJ10xx

GLASS PASSIVATED BRIDGE RECTIFIERE

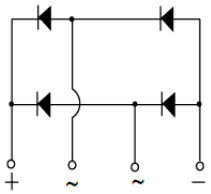
Features

- Low forward voltage drop，high current capability
- Ideal for printed circuit board
- Thin single in-line package
- MSL: Level 1
- Epoxy meets UL 94 V-0 flammability rating



Mechanical Data

- Case: GBJ Package, molded plastic body



Case Type

Absolute Maximum Ratings and Electronics characteristics

Ratings@25℃ ambient temperature unless otherwise specified

Parameter	Symbol	WGBJ 10005	WGBJ 101	WGBJ 102	WGBJ 104	WGBJ 106	WGBJ 108	WGBJ 110	UNIT
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
Average forward rectified current T_C=100℃	IF(AV)	10							A
Peak forward surge current 8.3ms single half. Sine Wave Superimposed on Rated Load	IFSM	200							A
Maximum instantaneous forward voltage at I_{FM}=10A,TJ=25℃	VF	1.1							V
Maximum DC reverse current (TJ= 25℃)at rated DC blocking voltage	IR	10							μA
Maximum DC reverse current (TJ= 125℃)at rated DC blocking voltage	IR	500							μA
Typical Junction Capacitance at VR=4V, f=1MHz	Cj	60							pF
I^2t Rating for fusing (t<8.3ms)	I^2t	200							A^2S
Typical Thermal Resistance	$R_{\theta JC}$	4.3							℃/W
Operating and Storage temperature range	T_J,Tstg	-55 ~ +150							℃

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Typical characteristics (Ta=25°C, unless otherwise noted)

FIG.1-FORWARD CURRENT DERATING CURVE

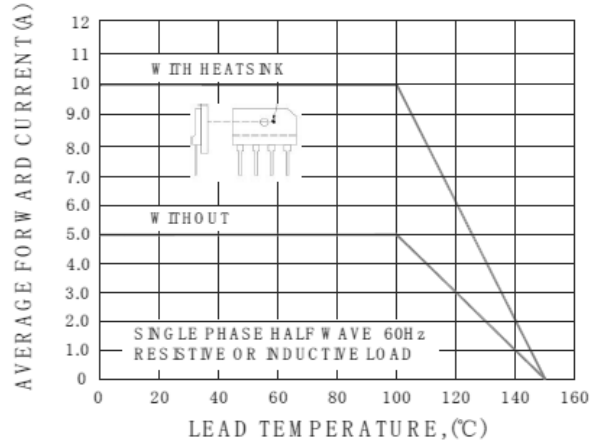


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

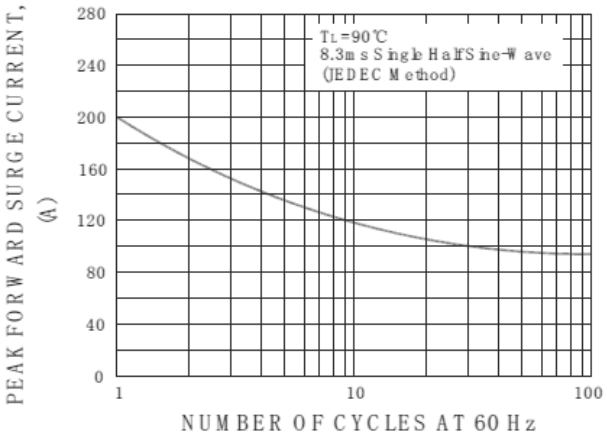


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

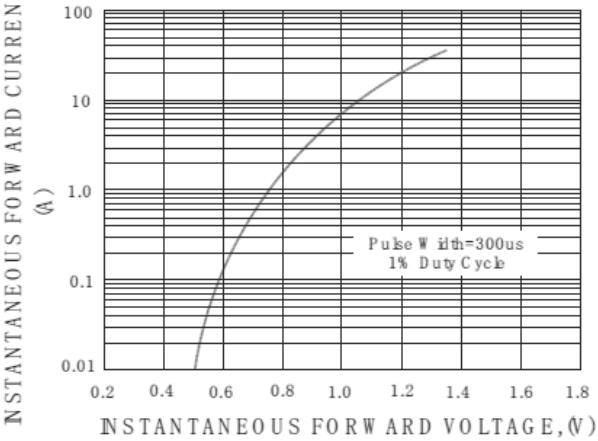


FIG.4-TYPICAL REVERSE CHARACTERISTICS

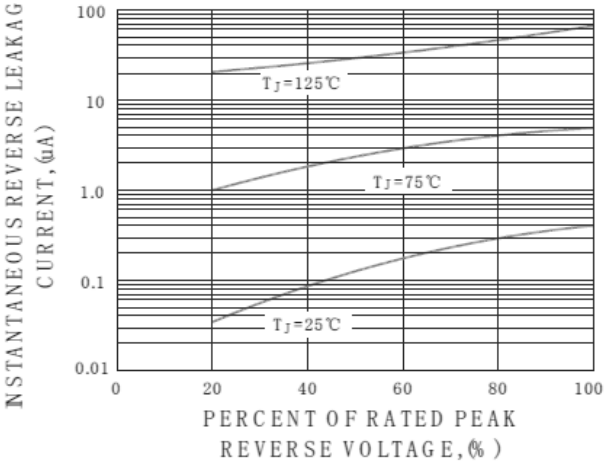
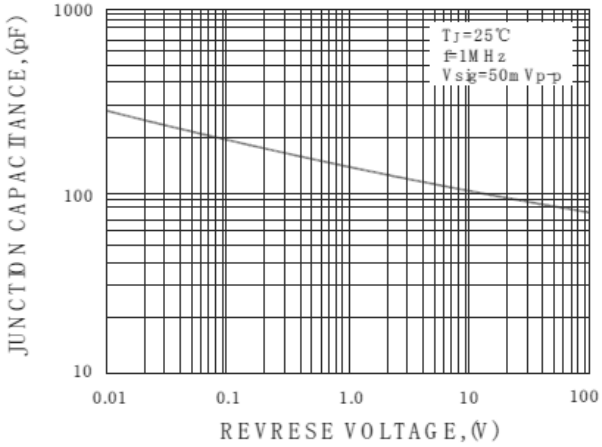
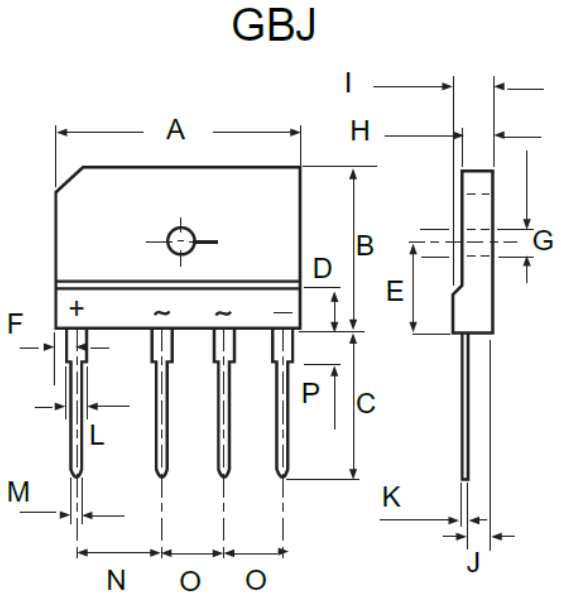


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: The above typical parameters or typical characteristics are only indicative and do not make specific guarantees. If detailed values are required, additional communication and provision are required.

Outline Drawing



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.170	1.190	29.70	30.30	
B	.780	.800	19.70	20.30	
C	.670	.710	17.00	18.00	
D	.019	.019	4.70	4.90	
E	.430	.440	10.80	11.20	
F	.090	.110	2.30	2.70	
G	.120	.130	3.10	3.40	
H	.130	.150	3.40	3.80	
I	.170	.190	4.40	4.80	
J	.100	.110	2.50	2.90	
K	.020	.030	0.60	0.80	
L	.080	.090	2.00	2.40	
M	.040	.040	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	
P	.150	.170	3.80	4.20	

Contact Information

No.1001, Shiwan(7) Road, Pudong District, Shanghai, P.R.China.201207
Tel: 86-21-50310888 Fax: 86-21-50757680 Email: market@way-on.com
WAYON website: **http://www.way-on.com**
For additional information, please contact your local Sales Representative.

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The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

The product parameters described in the product specification are numerical values, characteristics, and functions obtained through actual testing or theoretical calculations of the product in an independent or ideal state. Due to the complexity of product applications and variations in test conditions and equipment, there may be slight fluctuations in parameter test values. WAYON shall not guarantee that the actual performance of the product when installed in the customer's system or equipment will be entirely consistent with the product specification, especially concerning dynamic parameters. It is recommended that users consult with professionals for product selection and system design. Users should also thoroughly validate and assess whether the actual parameters and performance when installed in their respective systems or equipment meet their requirements or expectations. Additionally, users should exercise caution in verifying product compatibility issues, and WAYON assumes no responsibility for the application of the product.

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