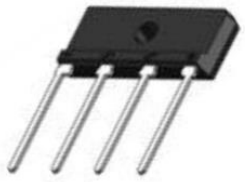
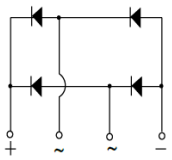
WKBJL10xx

GLASS PASSIVATED BRIDGE RECTIFIERE

Features



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



Case Type

Mechanical Data

- Case: KBJL Package, molded plastic body

Absolute Maximum Ratings and Electronics characteristics

Ratings@25℃ ambient temperature unless otherwise specified

Parameter	Symbol	WKBJL 10005	WKBJL 1001	WKBJL 1002	WKBJL 1004	WKBJL 1006	WKBJL 1008	WKBJL 1010	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	IF(AV)	10							A
Peak forward surge current 8.3ms single half. Sine Wave Superimposed on Rated Load	IFSM	180							A
Maximum instantaneous forward voltage at I_{FM}=5.0A,TJ=25℃	VF	1.0							V
Maximum DC reverse current (TJ= 25℃)at rated DC blocking voltage	IR	5.0							μA
Maximum DC reverse current (TJ= 125℃)at rated DC blocking voltage	IR	150							μA
Typical Junction Capacitance at VR=4V, f=1MHz	Cj	53							pF
I^2t Rating for fusing (t<8.3ms)	I^2t	135							A^2S
Typical Thermal Resistance	$R_{\theta JC}$	5.0							℃/W
Operating and Storage temperature range	T_J,Tstg	-55 ~ +150							℃

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

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

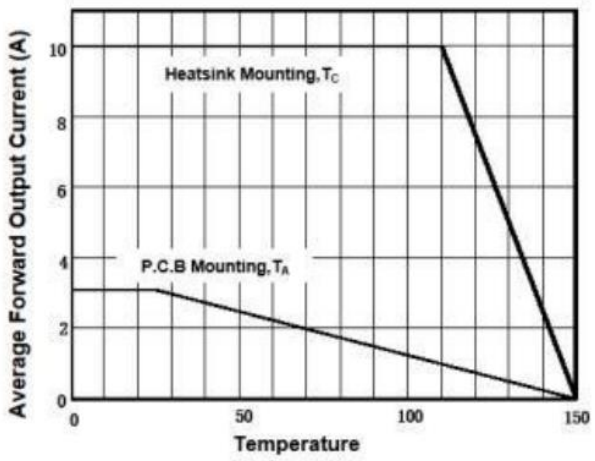


FIG.2-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

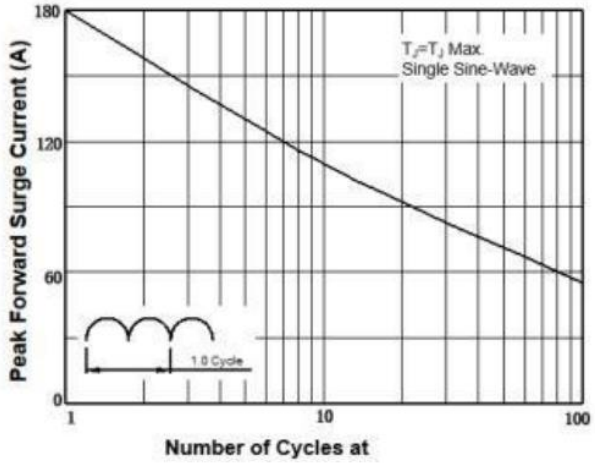


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

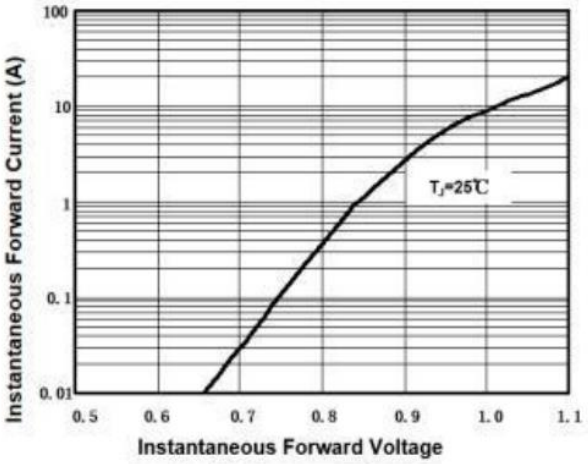
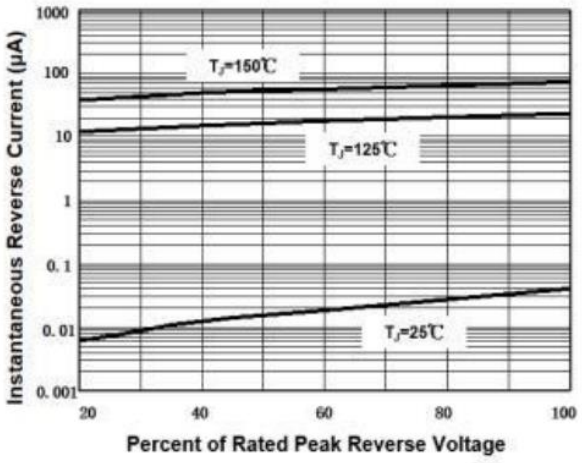
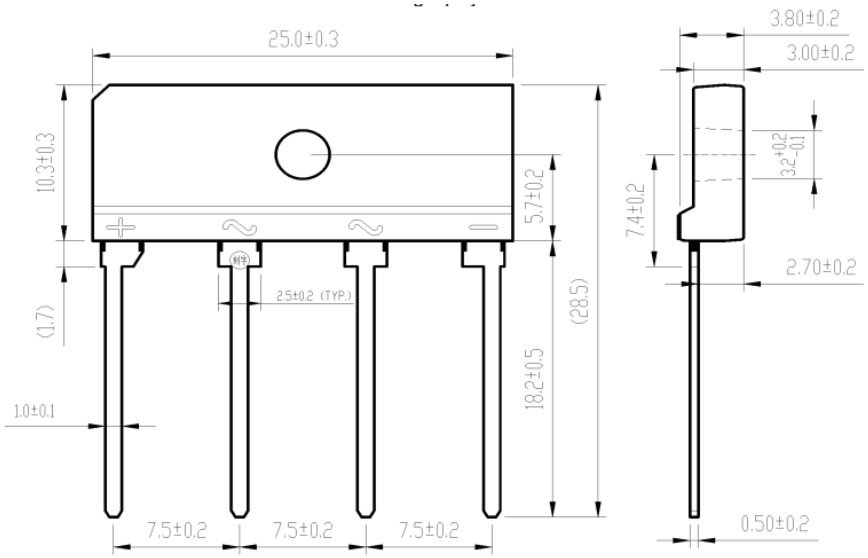


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS



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



elevation view right elevation

Contact Information

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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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Users are advised to pay attention to the parameter limit values specified in the product specification and maintain a certain margin in design or application to ensure that the product does not exceed the parameter limit values defined in the product specification. This precaution should be taken to avoid exceeding one or more of the limit values, which may result in permanent irreversible damage to the product, ultimately affecting the quality and reliability of the system or equipment.

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