

Glass Passivated Bridge Rectifiers GBJ25A Series

FEATURES

- Forward Current : 25A
- Reverse Voltage 600V, 800V
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Polarity : As marked on body
- Weight : 0.24 ounces, 6.79 grams
- Mounted position : Any

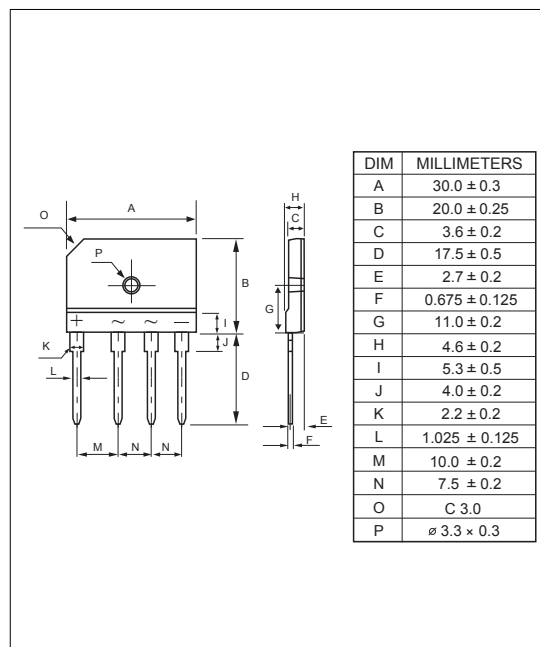
ORDERING INFORMATION

Part Number	QTY per Tube	QTY Per Carton Box
GBJ25A60B	15 pcs	750 pcs
GBJ25A80B	15 pcs	750 pcs

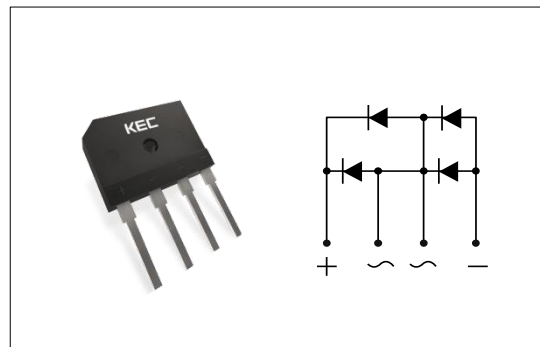
MARKING INFORMATION

Part Number	Marking code
GBJ25A60B	25A60B
GBJ25A80B	25A80B

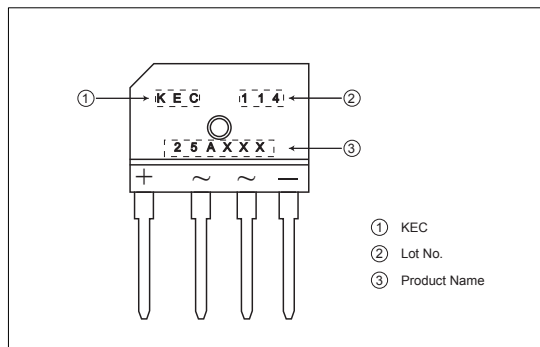
PACKAGE DIMENSION (GBJ)



PIN CONFIGURATION



MARKING CODE



PRODUCT DATASHEET

Bridge Rectifiers – GBJ25A Series

MAXIMUM RATING and ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter		Symbols	GBJ25A60B	GBJ25A80B	Units
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	600	800	V
Maximum RMS voltage		V _{RMS}	420	560	V
Maximum DC Blocking Voltage		V _{DC}	600	800	V
Maximum Average Forward Rectified Current (with heatsink Note2)		I _(AV)	25		A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Super Imposed on Rated Load (JEDEC Method)		I _{FSM}	300		A
Maximum Forward Voltage at 12.5A DC		V _F	1.0		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _J =25 °C	I _R	5		μA
	@T _J =125 °C		500		
I ² t Rating for fusing (t<8.3ms)		I ² t	374		A ² S
Typical Junction Capacitance per Element (Note1)		C _J	94		pF
Typical Thermal Resistance (Note2)		Rθ _{JC}	1.1		°C/W
Operating Temperature Range		T _J	-55 ~ +150		°C
Storage Temperature Range		T _{stg}	-55 ~ +150		°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Device mounted on 150mm*150mm*1.6mm Cu plate heatsink

PRODUCT DATASHEET

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Fig.1 Forward Current Derating Curve

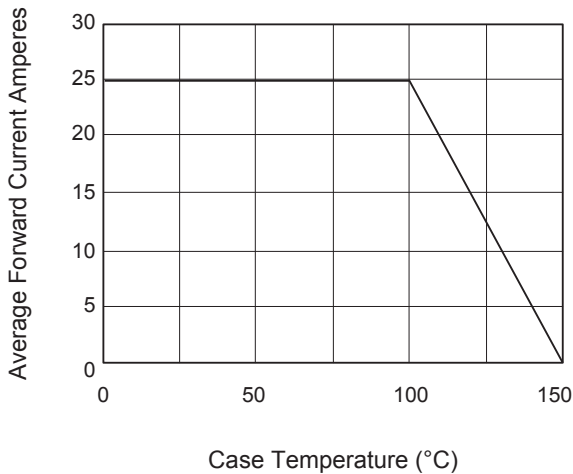


Fig.2 Typical Reverse Characteristics

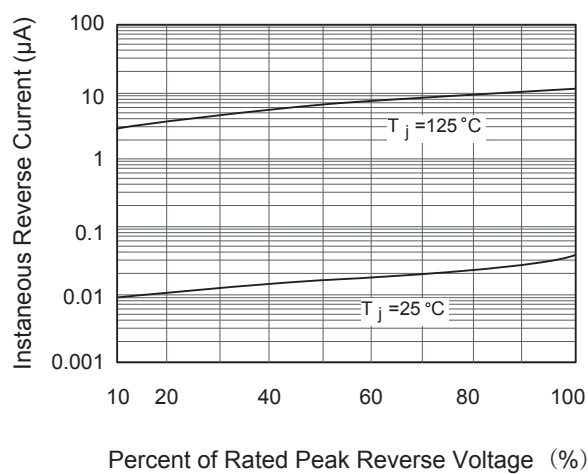


Fig.3 Typical Forward Characteristics

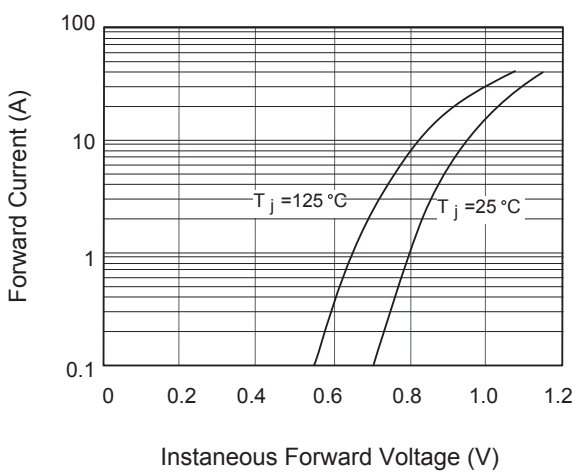


Fig.4 Typical Junction Capacitance

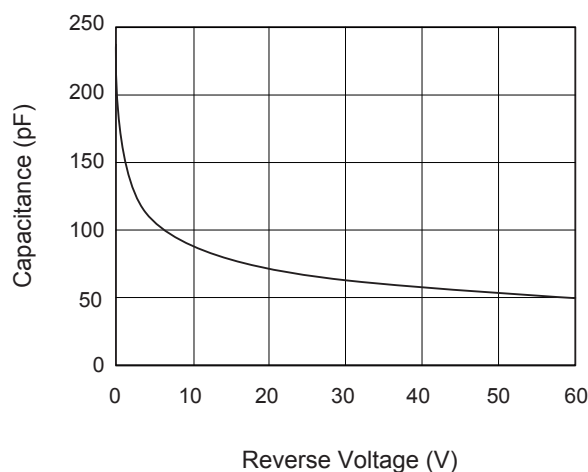
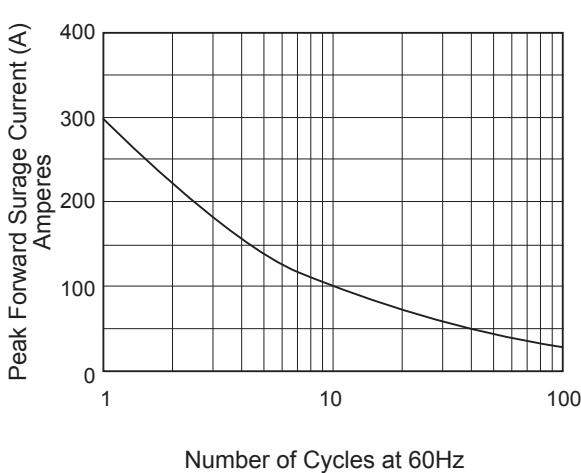
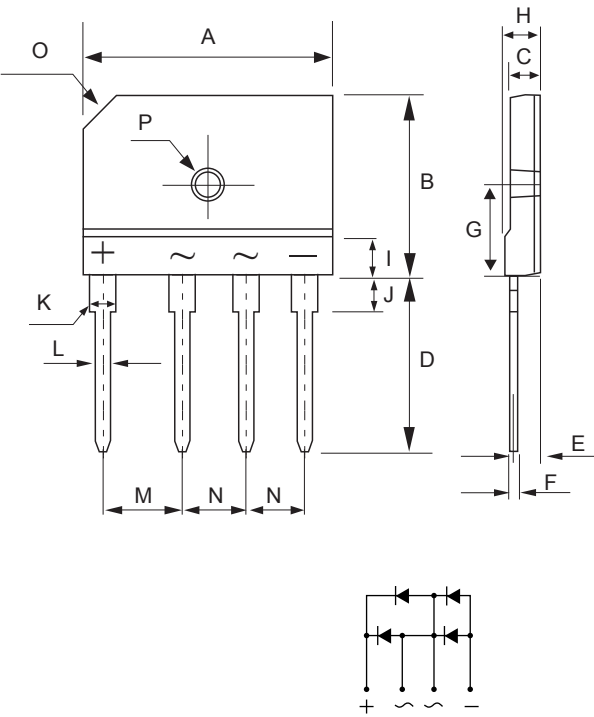


Fig.5 Maximum Forward Surge Current



PACKAGE DIMENSION (GBJ)



DIM	MILLIMETERS
A	30.0 ± 0.3
B	20.0 ± 0.25
C	3.6 ± 0.2
D	17.5 ± 0.5
E	2.7 ± 0.2
F	0.675 ± 0.125
G	11.0 ± 0.2
H	4.6 ± 0.2
I	5.3 ± 0.5
J	4.0 ± 0.2
K	2.2 ± 0.2
L	1.025 ± 0.125
M	10.0 ± 0.2
N	7.5 ± 0.2
O	C 3.0
P	∅ 3.3 × 0.3

PRECAUTION ON USING KEC PRODUCTS

1. The products described in this data are intended to be used in general-purpose electronic equipment (Office equipment, telecommunication equipment, measuring equipment, home appliances)
2. When you intend to use these products with equipment or device which require an extremely high of reliability and special applications (such as automobile, air travel aerospace, transportation equipment, life support, system and safety devices) in which special quality and reliability and the failure or malfunction of products may directly jeopardize or harm the human body or damage to property and any application other than the standard application intended, please be sure to consult with our sales representative in advance.
3. On designing your application, please use product within the ranges guaranteed by KEC for maximum rating, operating supply voltage range, heat radiation characteristics and other characteristics. User shall be responsible for failure or damage when used beyond the guaranteed ranges.
4. The technical information described in this data is limited to showing representative characteristics and applied circuit examples of the products and it does not constitute the warranting of industrial property, the granting of relative rights, or the granting of any license.
5. What are described in the data may be changed without any prior notice to reflect new technical development. Please confirm that you have received the latest product standards or specification before final design, purchase or use.
6. Although KEC is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. KEC shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by KEC.

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