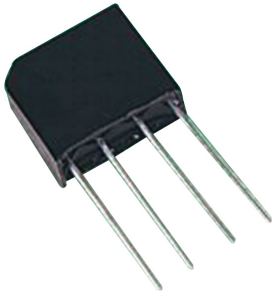


# Glass Passivated Bridge Rectifier



## Features

- Surge overload rating -125 Amperes peak
- Ideal for printed circuit board
- Plastic material has UL flammability classification 94V-0

## Mechanical Data

Mounting Position : Any  
Reverse Voltage : 100 to 200 Volts  
Forward Current : 4 Ampere

## Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristics	Symbol	KBL01G	KBL02G	Unit
Max. Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	V
Max. RMS Bridge Input Voltage	V <sub>RMS</sub>	70	140	
Max. DC Blocking Voltage	V <sub>DC</sub>	100	200	
Max. Average Forward Output Current at 50°C T <sub>A</sub> (Note 1)	I <sub>(AV)</sub>	4		A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	125		A
Max. Forward Voltage Drop Per Element at 4 A Peak	V <sub>F</sub>	1.1		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	10		μA
Max. Reverse Current at Rated DC Blocking Voltage and 150°C T <sub>A</sub>	I <sub>R</sub>	1		nS
Operating Temperature Range	T <sub>J</sub>	-55 to +150		°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150		°C

- Notes :**
1. Measured with I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1A, I<sub>RR</sub> = 0.25A
  2. Measured at 1MHz and applied reverse voltage of 4V DC
  3. Thermal resistance junction to ambient.
  4. The typical data above is for reference only

# Glass Passivated Bridge Rectifier



## Ratings and Characteristic Curves

FIG.1-MAXIMUM FORWARD SURGE CURRENT

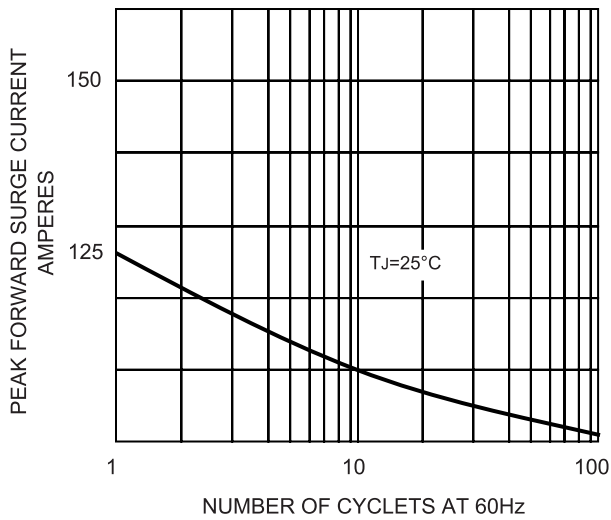


FIG.2-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

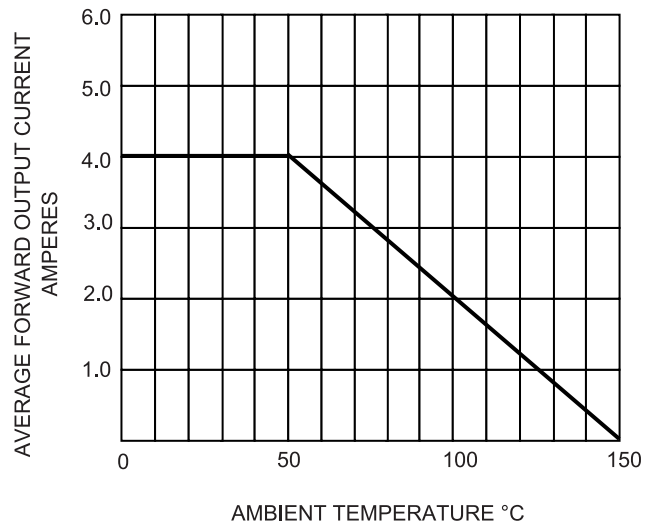


FIG.3-TYPICAL FORWARD CHARACTERISTICS

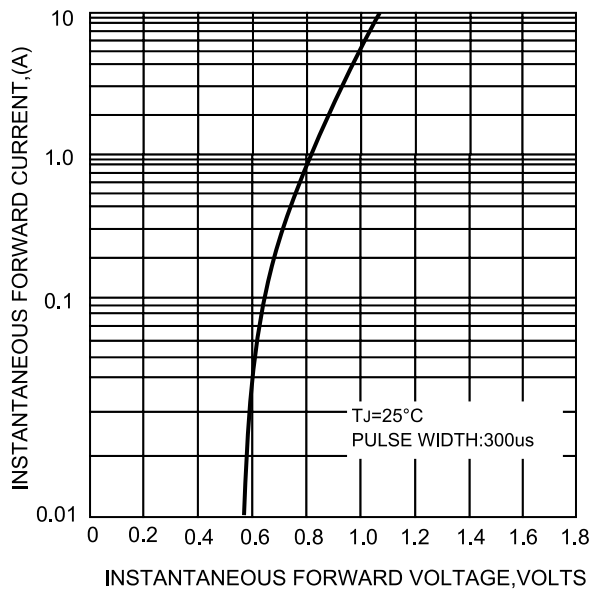
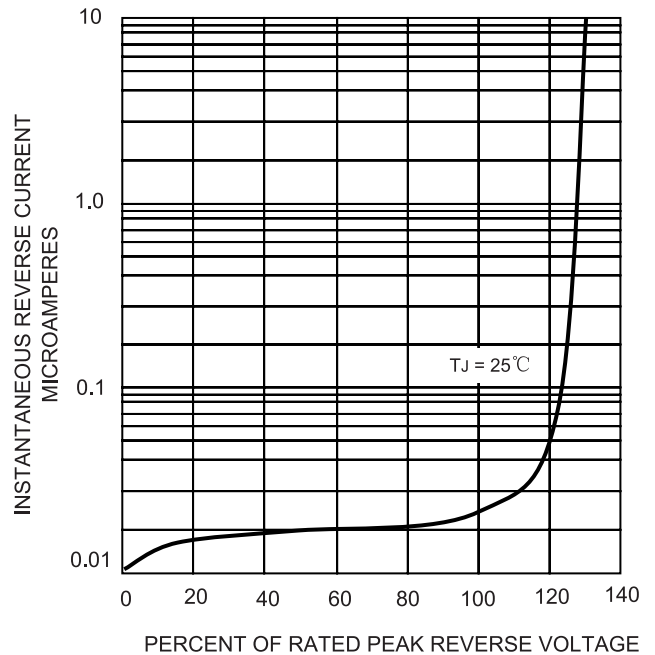


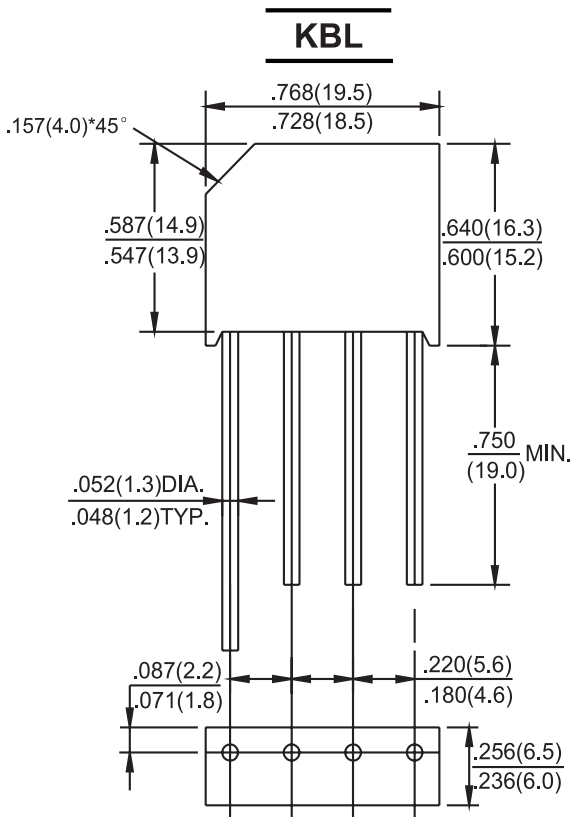
FIG.4- TYPICAL REVERSE CHARACTERISTICS



# Glass Passivated Bridge Rectifier



## Dimensions:



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifiers, 4A 200V	KBL02G
Glass Passivated Bridge Rectifiers, 4A 100V	KBL01G

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com  
www.farnell.com  
www.newark.com

