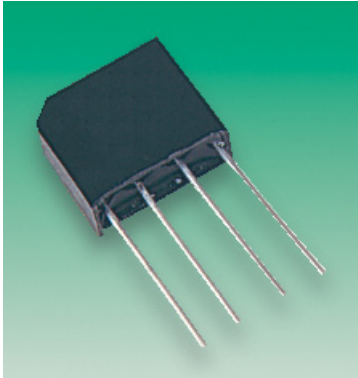


# 2KBP02M, 08M

## Glass Passivated Bridge Rectifiers

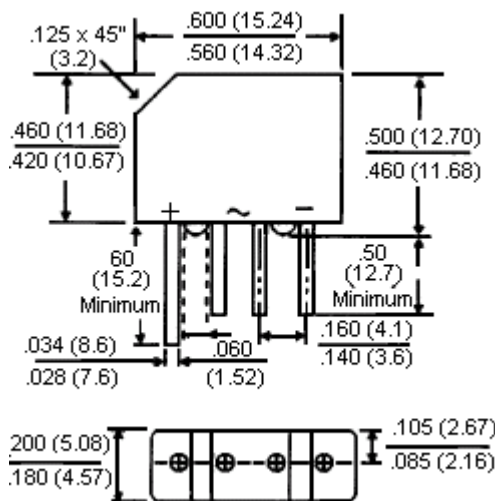


### Features:

- In-line glass passivated single phase rectifier bridge.
- Surge overload rating: 60 Amperes peak.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing moulded plastic technique.

### Mechanical Data:

Terminals : Lead solderable per MIL-STD-202, Method 208.  
Mounting position : Any.  
weight : 0.06 ounce, 1.7 grams.



Dimensions : Inches (Millimetres)

### Maximum Ratings and Electrical Characteristics:

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

Parameter	2KBP02M	2KBP08M	Units
Maximum recurrent peak reverse voltage	200	800	V
Maximum RMS bridge input voltage	140	560	
Maximum DC blocking voltage	200	800	
Maximum average rectified output current at 25°C ambient	2.0		A
Peak one cycle surge overload current	60.0		



# 2KBP02M, 08M

## Glass Passivated Bridge Rectifiers



Parameter	2KBP02M	2KBP08M	Units
Maximum forward voltage drop per bridge element at 3.14A dc	1.1		V
Maximum (Total bridge) reverse leakage at rated DC blocking voltage	5		mA
Maximum (Total bridge) reverse leakage at rated DC blocking voltage and 100°C	0.5		
I <sup>2</sup> t Rating for fusing ( t <8.35ms)	15		A <sup>2</sup> Seconds
Typical junction capacitance per leg (Note 1) C <sub>J</sub>	25.0		pF
Typical thermal resistance per leg (Note 2) R <sub>θJA</sub> Typical thermal resistance per leg (Note 2) R <sub>θJL</sub>	30.0 11.0		°C/W
Operating temperature range	-55 to +125		°C
Storage temperature range	-55 to +150		

### Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0 Volts.
2. Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.47 x 0.47" (12 x 12mm) copper pads.

### Rating and Characteristics Curves

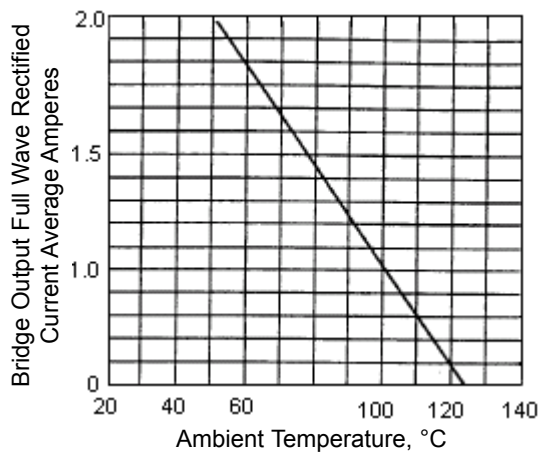


Figure 1 - Derating Curve for Output Rectified Current

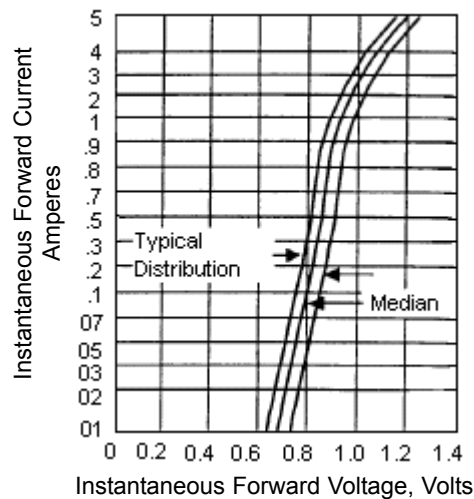


Figure 2 - Typical Forward Characteristics (25°C)

# 2KBP02M, 08M

## Glass Passivated Bridge Rectifiers

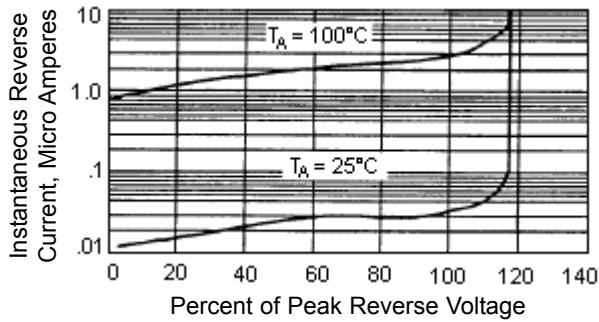


Figure 3 - Typical Reverse Characteristics

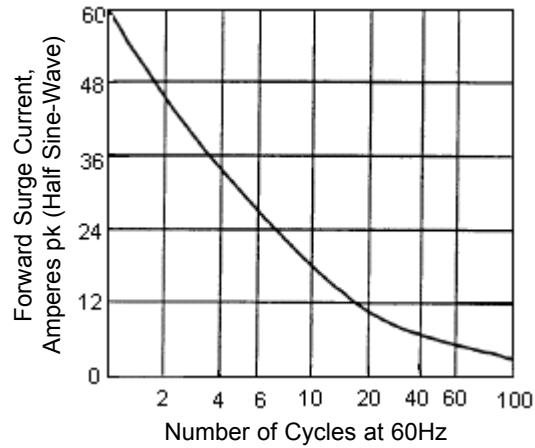


Figure 4 - Non-Recurrent Surge Rating

### Specifications

$V_{RRM}$ (V)	Maximum Input Voltage (V ac)	$I_D$ at $I_{FSM} = 60A$	Pin Spacing	Current Rating (A)	Body			Part Number
					Height	Width	Depth	
200	140	2	4.1	2	12.7	15.24	5.08	2KBP02M
800	560							2KBP08M

Dimensions : Millimetres



# 2KBP02M, 08M

## Glass Passivated Bridge Rectifiers



### Notes:

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