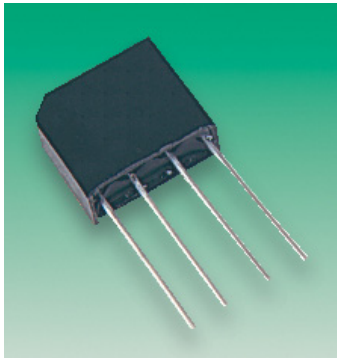


2KBP02M, 08M

Glass Passivated Bridge Rectifiers

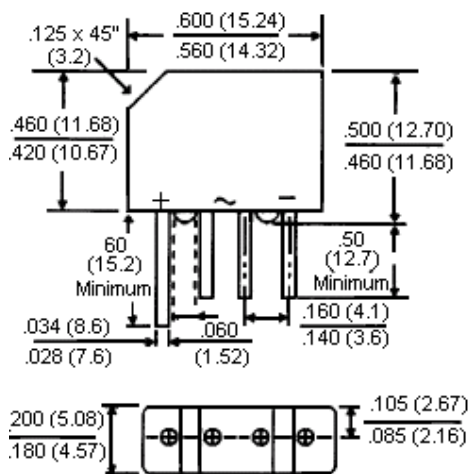


Features:

- 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 ² t Rating for fusing (t <8.35ms)	15		A ² Seconds
Typical junction capacitance per leg (Note 1) C _J	25.0		pF
Typical thermal resistance per leg (Note 2) R _{θJA}	30.0		°C/W
Typical thermal resistance per leg (Note 2) R _{θJL}	11.0		
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

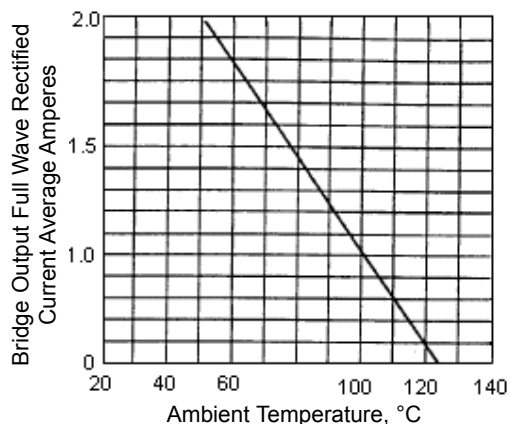


Figure 1 - Derating Curve for Output Rectified Current

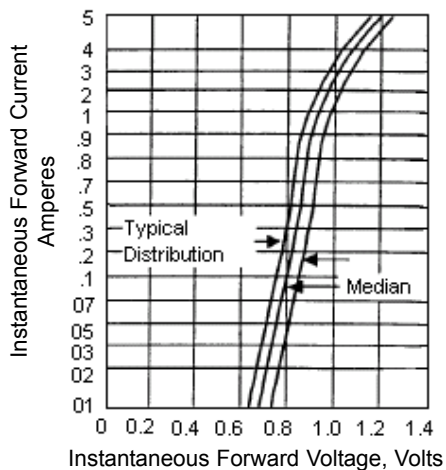


Figure 2 - Typical Forward Characteristics (25°C)



2KBP02M, 08M

Glass Passivated Bridge Rectifiers

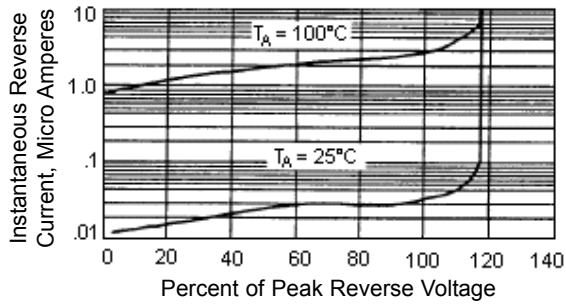


Figure 3 - Typical Reverse Characteristics

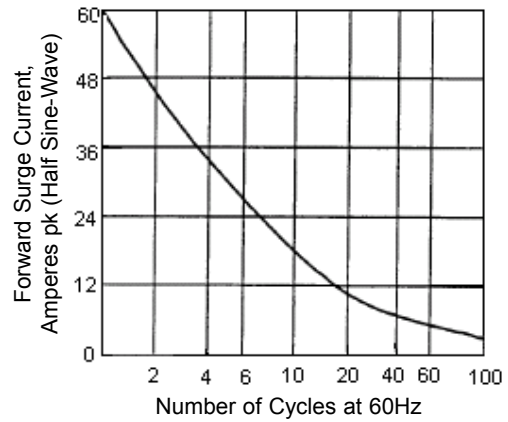


Figure 4 - Non-Recurrent Surge Rating

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



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