

Bridge Rectifier



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	: 0.06oz, 1.7g

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		A
Peak one cycle surge overload current	60		
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		
I²t Rating for fusing (t <8.35ms)	15		A² Seconds
Typical junction capacitance per leg (Note 1) C _J	25		pF
Typical thermal resistance per leg (Note 2) RθJA Typical thermal resistance per leg (Note 2) RθJL	30 11		°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 4V.
2. Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.47" × 0.47" (12mm × 12mm) copper pads.

Bridge Rectifier



Rating and Characteristics Curves

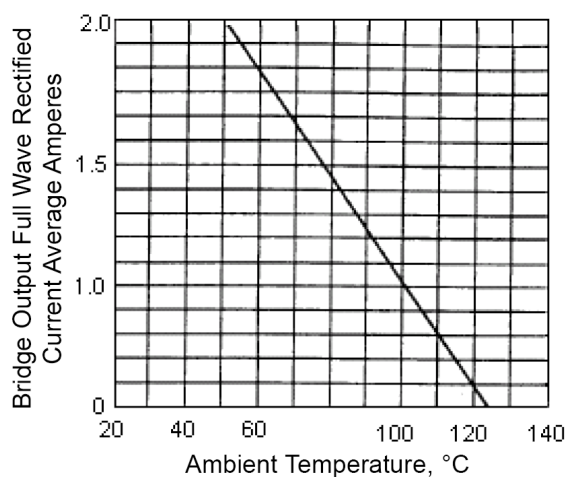


Figure 1 - Derating Curve for Output Rectified Current

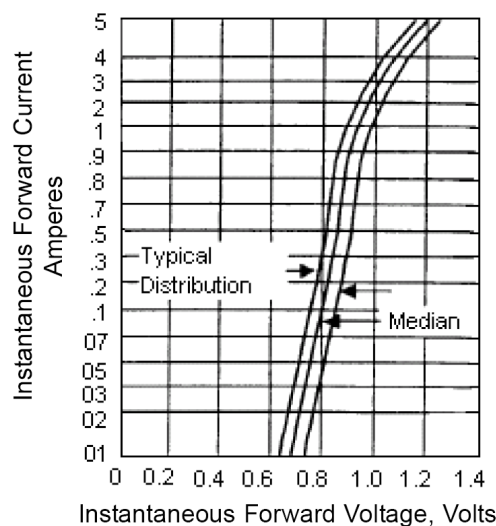


Figure 2 - Typical Forward Characteristics (25°C)

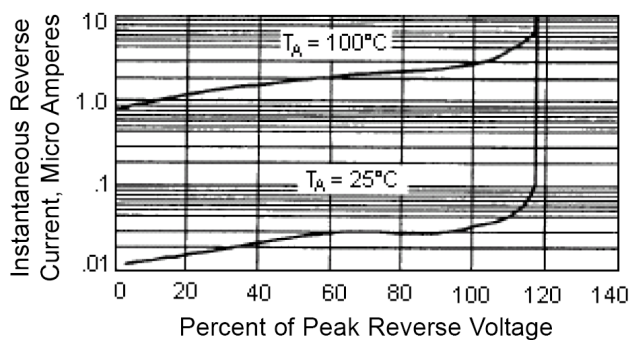


Figure 3 - Typical Reverse Characteristics

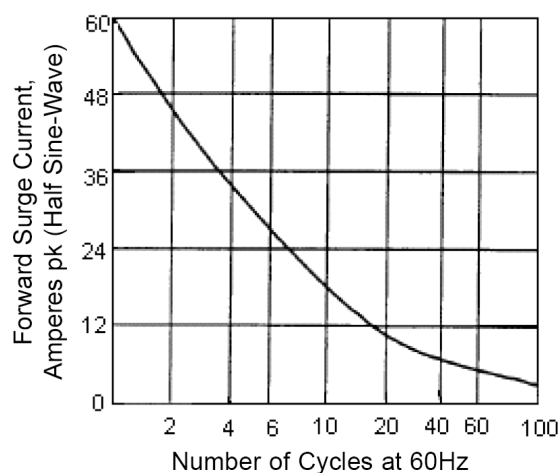
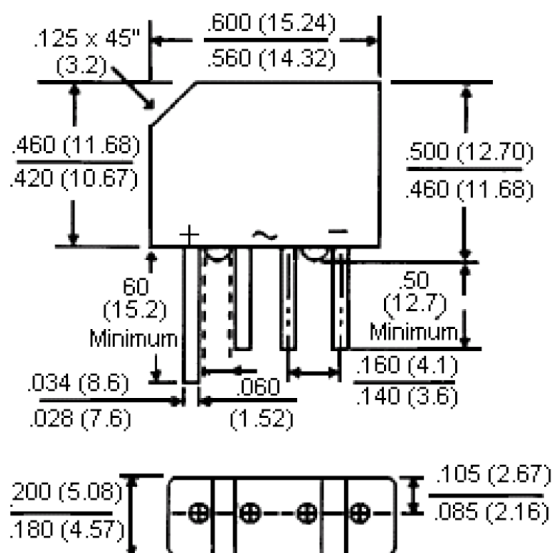


Figure 4 - Non-Recurrent Surge Rating

Bridge Rectifier



Dimensions : Inches (Millimetres)

Part Number Table

Description	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	
Bridge Rectifier	200	140	2	4.1	2	12.7	15.24	5.08	2KBP02M
	800	560							2KBP08M

Dimensions : Inches (Millimetres)

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