

2KBP005M – 2KBP10M

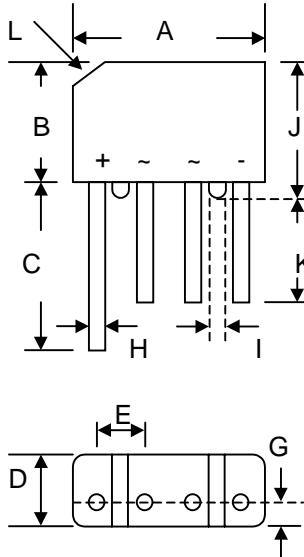
2.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



KBP		
Dim	Min	Max
A	14.22	15.24
B	10.67	11.68
C	15.2	—
D	4.57	5.08
E	3.60	4.10
G	2.16	2.67
H	0.76	0.86
I	1.52	—
J	11.68	12.7
K	12.7	—
L	3.2 x 45° Typical	

All Dimensions in mm

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

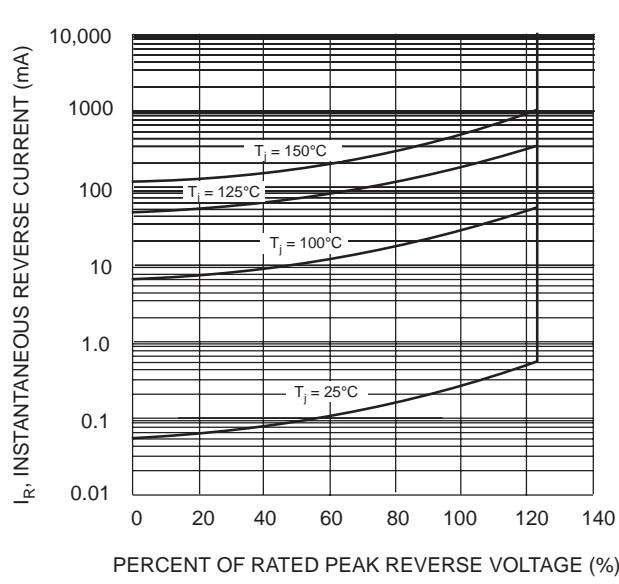
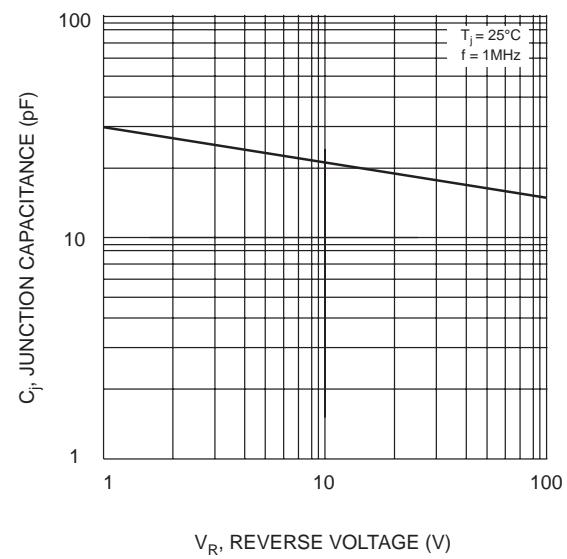
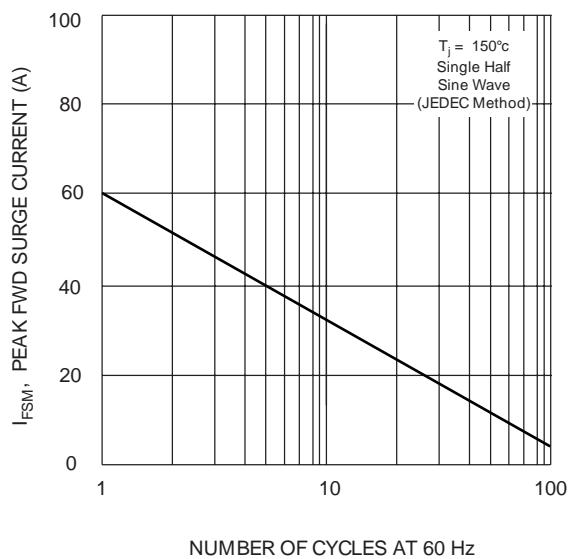
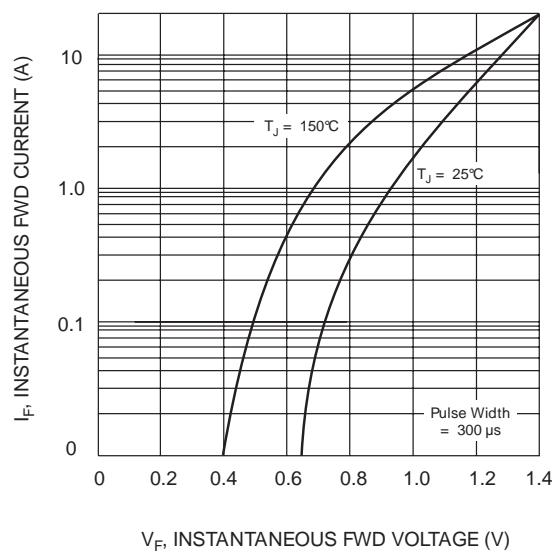
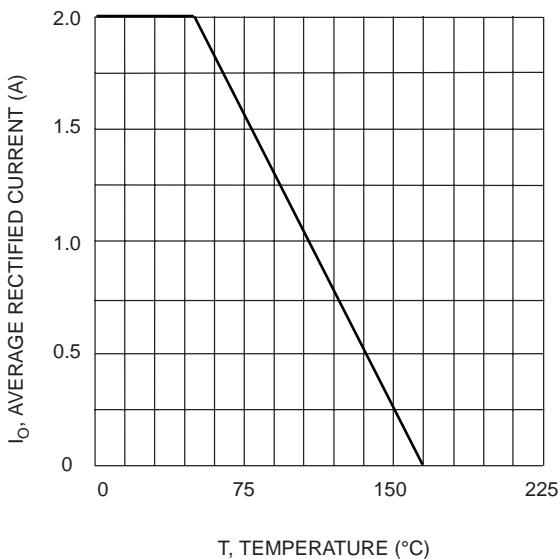
For capacitive load, derate current by 20%.

Characteristic	Symbol	2KBP 005M	2KBP 01M	2KBP 02M	2KBP 04M	2KBP 06M	2KBP 08M	2KBP 10M	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)	I _o				2.0				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				60				A
Forward Voltage (per element) @ I _F = 2.0A	V _{FM}				1.1				V
Peak Reverse Current @ T _A = 25°C At Rated DC Blocking Voltage @ T _A = 100°C	I _{RM}				10	500			µA
Rating for Fusing (t<8.3ms)	I ² _t				15				A ² s
Typical Junction Capacitance per element (Note 2)	C _j				25				pF
Typical Thermal Resistance (Note 3)	R _{θJA}				30				K/W
Operating and Storage Temperature Range	T _j , T _{STG}				-55 to +165				°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance junction to ambient mounted on PC board with 12mm² copper pad.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
2KBP005M	SIL Bridge	1000 Units/Box
2KBP01M	SIL Bridge	1000 Units/Box
2KBP02M	SIL Bridge	1000 Units/Box
2KBP04M	SIL Bridge	1000 Units/Box
2KBP06M	SIL Bridge	1000 Units/Box
2KBP08M	SIL Bridge	1000 Units/Box
2KBP10M	SIL Bridge	1000 Units/Box

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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