

# 2.0A GLASS PASSIVATED BRIDGE RECTIFIER

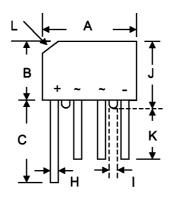
### **FEATURES**

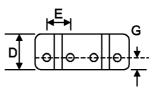
- \* Glass Passivated Die Construction
- \* Typical I<sub>R</sub> less than 0.1uA
- \* High case dielectric strength
- \* Ideal for printed circuit boards
- \* High Surge Current Capability
- \* High temperature soldering guaranteed: 260 /10 second at 5 lbs (2.3kg) tension.

## **MECHANICAL DATA**

\* Case: Molded Plastic

\* Epoxy: UL94V-O rate flame retardant
\* Terminals: Plated Leads Solderable
Per MIL-STD-750 Method 2026
\* Polarity: As Marking on Body
\* Mounting Position: Any
\* Weight: 1.7 gram (approx.)
\* Marking:Type Number





KBP							
Dim	Min	Max					
Α	14.22	15.24					
В	10.66	16.68					
С	15.20						
D	4.56	5.10					
E	3.60	4.30					
G	2.16	2.54					
Н	0.76	0.85					
- 1	1.52						
J	11.68	12.70					
K	12.70						
L	3.2×45°	<sup>⊃</sup> Typical					
Unit :mm							

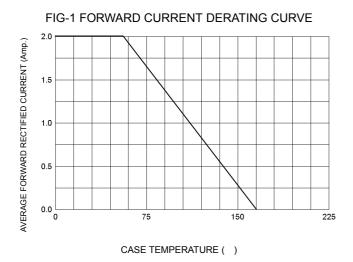
# MAXIMUM RATINGS AND ELECTRICAL CHARATERISTICS

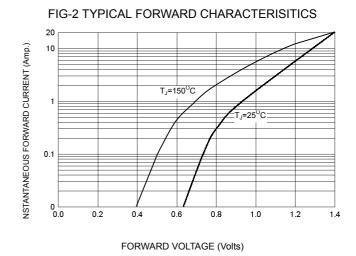
- \* Rating at 25 ambient temperature unless otherwise specified
- \* Single phase,half wave. 60Hz, resistive or inductive load.
- \* For capacitive load derate current by 20 %

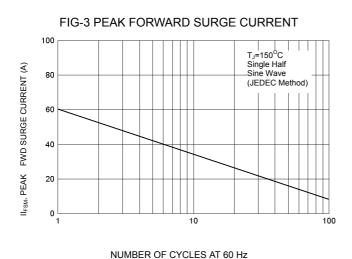
Characteristic	Symbol	2KBP 005M	2KBP 01M	2KBP 02M	2KBP 04M	2KBP 06M	2KBP 08M	2KBP 10M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	٧
Average Rectifier Forward Current (Note 1) @ T <sub>A</sub> =55	I <sub>O(AV)</sub>	2.0							Α
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load ( JEDEC Method)		60							Α
Forward Voltage (per element) (I <sub>F</sub> =2.0 Amp)	$V_{FM}$	1.1							V
Peak Reverse Current (Rated DC Voltage, T <sub>C</sub> = 25) (Rated DC Voltage, T <sub>C</sub> = 100)	I <sub>R</sub>	5.0 500						uA	
Rating for Fusing( t<8.3 ms)	I <sup>2</sup> t	15							A <sup>2</sup> s
Typical Junction Capacitance per element (Note2)		25							pF
Typical Thermal Resistance (note 3)	R <sub>θ jA</sub>	30							k/W
Operating and Storage Temperature Range		-65 to +165							

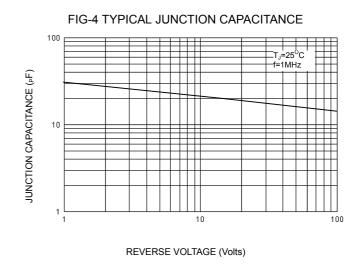
Note: 1 Lead maintained at ambient temperature at a distance of 9.5 mm from the case.

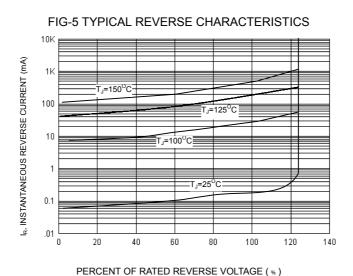
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal resistance junction to ambient, mounted on PC board with 12 mm<sup>2</sup> copper pad.













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