

# **KBP200G - KBP2010G**

### 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

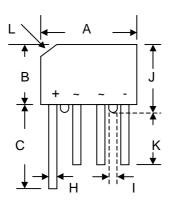
Case: Molded Plastic

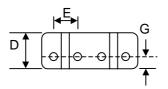
Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: As Marked on Body

• Weight: 1.7 grams (approx.)

Mounting Position: AnyMarking: Type Number





KBP							
Dim	Min	Max					
Α	14.22	15.24					
В	10.67	11.68					
С	15.2	_					
D	4.57	5.08					
Е	3.60	4.10					
G	2.16	2.67					
Н	0.76	0.86					
1	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<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBP 200G	KBP 201G	KBP 202G	KBP 204G	KBP 206G	KBP 208G	KBP 2010G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 50°C	lo	2.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60						Α	
Forward Voltage (per element) @I <sub>F</sub> = 2.0A	VFM	1.1						V	
	IRM	10 500			μΑ				
Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	15					A <sup>2</sup> s		
Typical Junction Capacitance per element (Note 2)	Cj	25					pF		
Typical Thermal Resistance (Note 3)	R heta JA	30						K/W	
Operating and Storage Temperature Range	Тj, Tsтg	-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 12mm<sup>2</sup> copper pad.

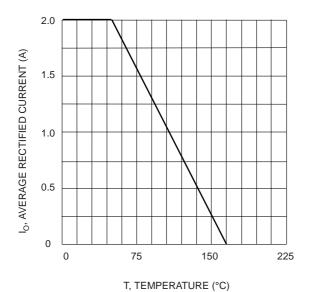
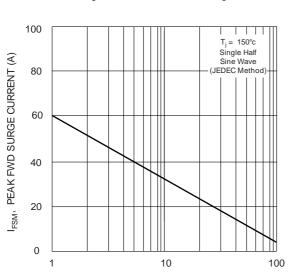
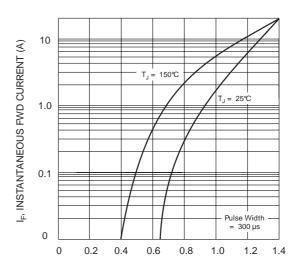


Fig. 1 Forward Current Derating Curve

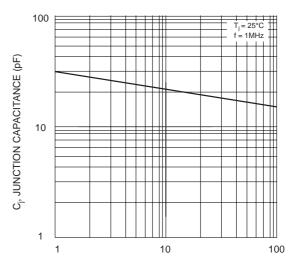


NUMBER OF CYCLES AT 60 Hz
Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



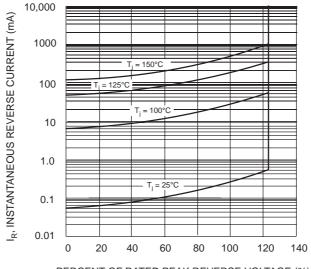
 $\mathsf{V}_\mathsf{F}\!,$  INSTANTANEOUS FWD VOLTAGE (V)

Fig. 2 Typical Fwd Characteristics



V<sub>R</sub>, REVERSE VOLTAGE (V)

Fig. 4 Typical Junction Capacitance



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

Fig. 5 Typical Reverse Characteristics

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
KBP200G	SIL Bridge	1000 Units/Box
KBP201G	SIL Bridge	1000 Units/Box
KBP202G	SIL Bridge	1000 Units/Box
KBP204G	SIL Bridge	1000 Units/Box
KBP206G	SIL Bridge	1000 Units/Box
KBP208G	SIL Bridge	1000 Units/Box
KBP2010G	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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Won-Top Electronics Co., Ltd.
No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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