

# **KBP200G – KBP2010G**



#### 2.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- **High Current Capability**
- High Reliability
- High Surge Current Capability

## В Ideal for Printed Circuit Boards Recognized File # E157705 **Mechanical Data**

#### Min Dim Max Α 14.22 15.24 В 10.67 11.68 С 15.20 \_ 4.70 D 4.30 Ε 3.60 4.10 G 2.75 3.15 Н 0.76 0.86 ı 1.52 \_ 11.68 12.70 K 12.7 3.2 x 45° Typical All Dimensions in mm

KBPM

- Case: KBPM, 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
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	1	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	<b>V</b>
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current	@T <sub>A</sub> = 55°C	lo				2.0				Α
Non-Repetitive Peak Forward Surge 8.3ms Single half sine-wave superim rated load (JEDEC Method)		IFSM				60				А
Forward Voltage per leg	@I <sub>F</sub> = 2.0A	VFM				1.1				V
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 125°C	lгм				5.0 500				μΑ
Rating for Fusing (t<8.3ms)		l <sup>2</sup> t				15				A <sup>2</sup> s
Typical Junction Capacitance per leg (Note 1)		Cj	25					pF		
Typical Thermal Resistance per leg (Note 2)		RθJA RθJL	30 11					°C/W		
Operating and Storage Temperature Range		Tj, Tstg	-55 to +165					°C		

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Mounted on PC board with 12mm<sup>2</sup> copper pad.

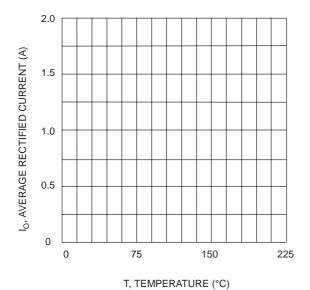
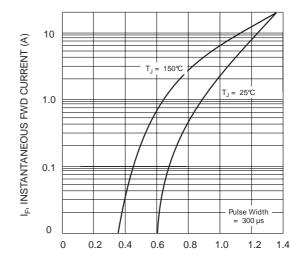


Fig. 1 Forward Current Derating Curve



 $V_{\rm F}$ , INSTANTANEOUS FWD VOLTAGE (V)

Fig. 2 Typical Fwd Characteristics

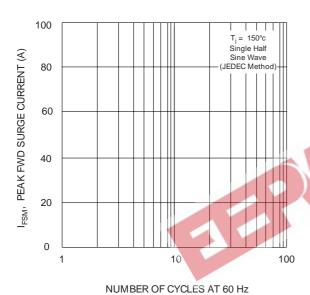
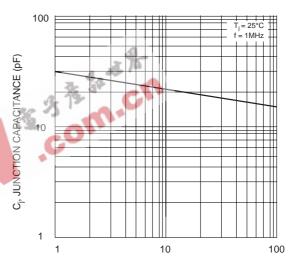
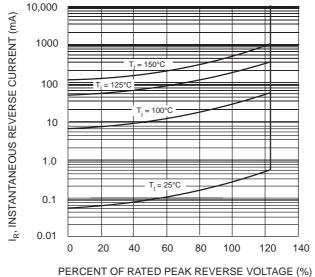


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



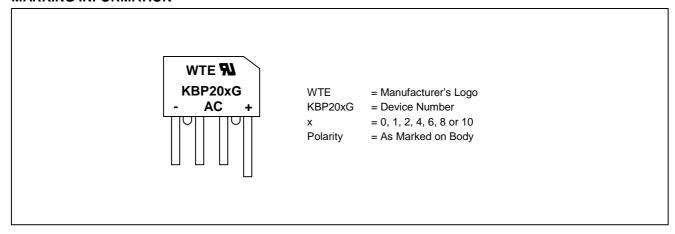
V<sub>R</sub>, REVERSE VOLTAGE (V)

Fig. 4 Typical Junction Capacitance



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### **MARKING INFORMATION**



#### **PACKAGING INFORMATION**

#### **BULK**

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
200 x 160 x 42	600	425 x 215 x 280	7,200	17.0

Note: 1. Paper box, white or brown color.

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
KBP200G	SIL Bridge	600 Units/Box
KBP201G	SIL Bridge	600 Units/Box
KBP202G	SIL Bridge	600 Units/Box
KBP204G	SIL Bridge	600 Units/Box
KBP206G	SIL Bridge	600 Units/Box
KBP208G	SIL Bridge	600 Units/Box
KBP2010G	SIL Bridge	600 Units/Box

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBP200G-LF.



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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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