

# **KBP200 - KBP2010**

## 2.0A BRIDGE RECTIFIER

#### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- UL Recognized File # E157705

### **Mechanical Data**

Case: Molded Plastic

Terminals: Plated Leads Solderable per

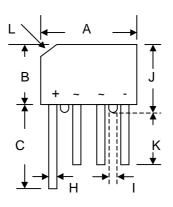
MIL-STD-202, Method 208

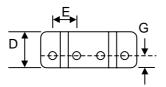
Polarity: As Marked on Body

• Weight: 1.7 grams (approx.)

Mounting Position: Any

Marking: Type Number





КВР						
Dim	Min	Max				
Α	14.22	15.24				
В	10.67	11.68				
С	15.2	_				
D	4.57	5.08				
E	3.60	4.10				
G	2.16	2.67				
Н	0.76	0.86				
ı	1.52	_				
J	11.68	12.7				
K	12.7 —					
L	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 200	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 2010	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						А	
Forward Voltage (per element) $@I_F = 2.0A$	VFM	1.1			V				
	IRM	10 500			μΑ				
Rating for Fusing (t<8.3ms)	l <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)	$R_{\theta}$ JA	30						K/W	
Operating and Storage Temperature Range	Tj, TSTG	-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.

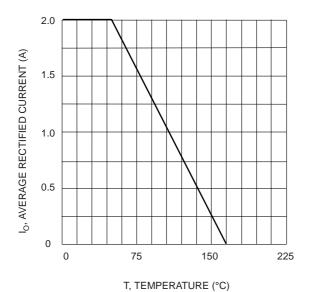
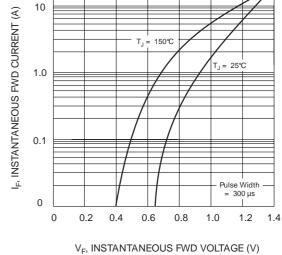


Fig. 1 Forward Current Derating Curve



F, INSTANTANEOUS FWD VOLIAGE (V)

Fig. 2 Typical Fwd Characteristics

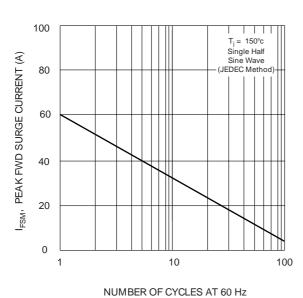
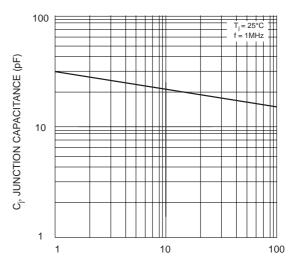


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



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

Fig. 4 Typical Junction Capacitance

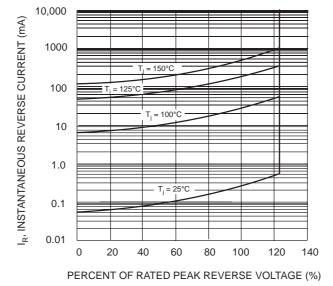


Fig. 5 Typical Reverse Characteristics

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
KBP200	SIL Bridge	1000 Units/Box
KBP201	SIL Bridge	1000 Units/Box
KBP202	SIL Bridge	1000 Units/Box
KBP204	SIL Bridge	1000 Units/Box
KBP206	SIL Bridge	1000 Units/Box
KBP208	SIL Bridge	1000 Units/Box
KBP2010	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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