

# KBU1000 - KBU1010

### 10A SINGLE PHASE BRIDGE RECTIFIER



### **Features**

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

### **Mechanical Data**

Case: KBU, Molded Plastic

Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

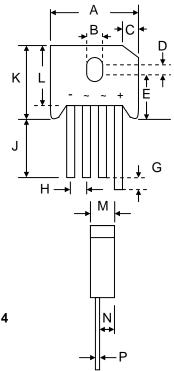
Polarity: As Marked on Body

Weight: 8.0 grams (approx.)

Mounting Position: Any

Mounting Torque: 0.8 N.m Max.

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



KBU					
Dim	Min	Max			
Α	22.70	23.70			
В	3.60	4.10			
С	4.20	4.70			
D	1.70	2.20			
Е	10.30	11.30			
G	4.50	5.60			
Н	4.60	5.60			
J	25.40	_			
K	_	19.80			
L	16.80	17.80			
М	6.60	7.10			
N	4.10	4.60			
Р	1.20	1.30			
All Dimensions in mm					

# 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%.

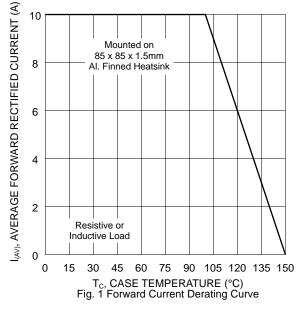
Characteristic	Symbol	KBU 1000	KBU 1001	KBU 1002	KBU 1004	KBU 1006	KBU 1008	KBU 1010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>C</sub> = 100°C (Note 1)	lo				10				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	İFSM				220				А
Forward Voltage per leg $@I_F = 5.0A$	VFM	1.0			V				
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IRM	10 1.0			μA mA				
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t				200				A <sup>2</sup> s
Typical Junction Capacitance (Note 2)	Cı	211 94				pF			
Thermal Resistance Junction to Ambient (Note 3) Thermal Resistance Junction to Case (Note 1)	R JA R JC	16 2.8				°C/W			
RMS Isolation Voltage Terminals to Case, t = 1min	Viso	1500					V		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C		

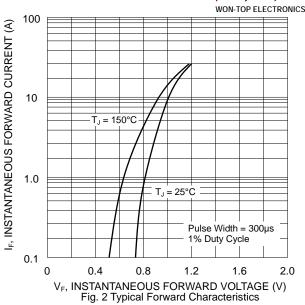
Note: 1. Mounted on 85 x 85 x 1.5mm thick Al. heatsink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Mounted on PCB with 12 x 12mm copper pads and measured at lead length 9.5mm from case.

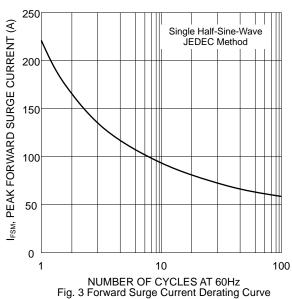
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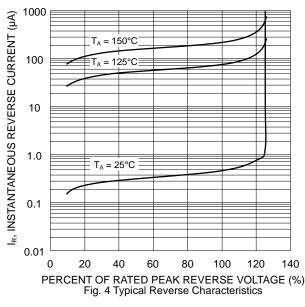
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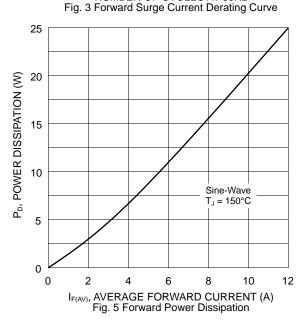


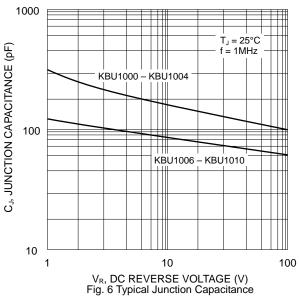






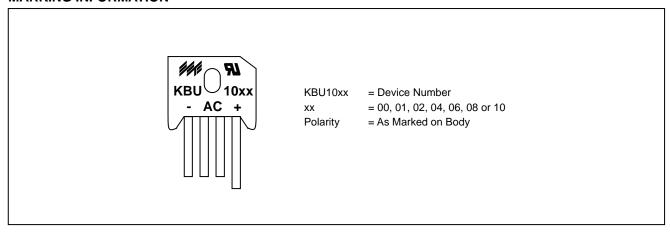








# **MARKING INFORMATION**



### **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)	
268 x 227 x 51	400	463 x 283 x 185	2,400	20.5

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



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
KBU1000	SIL Bridge	400 Units/Box
KBU1001	SIL Bridge	400 Units/Box
KBU1002	SIL Bridge	400 Units/Box
KBU1004	SIL Bridge	400 Units/Box
KBU1006	SIL Bridge	400 Units/Box
KBU1008	SIL Bridge	400 Units/Box
KBU1010	SIL Bridge	400 Units/Box

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBU1000-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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