

# **KBU1000 - KBU1010**

## **10A BRIDGE RECTIFIER**

#### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

### **Mechanical Data**

Case: Molded Plastic

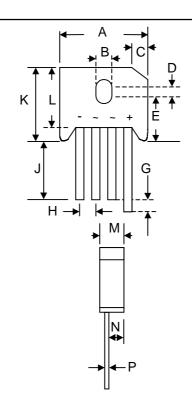
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body

Weight: 8.0 grams (approx.)

Mounting Position: Any

Marking: Type Number



KBU						
Dim	Min	Max				
Α	22.70	23.70				
В	3.80	4.10				
С	4.20	4.70				
D	1.70	2.20				
Е	10.30	11.30				
G	4.50	6.80				
Н	4.60	5.60				
J	25.40	_				
K	_	19.30				
L	16.80	17.80				
М	6.60	7.10				
N	4.70	5.20				
Р	1.20	1.30				
All Dimensions in mm						

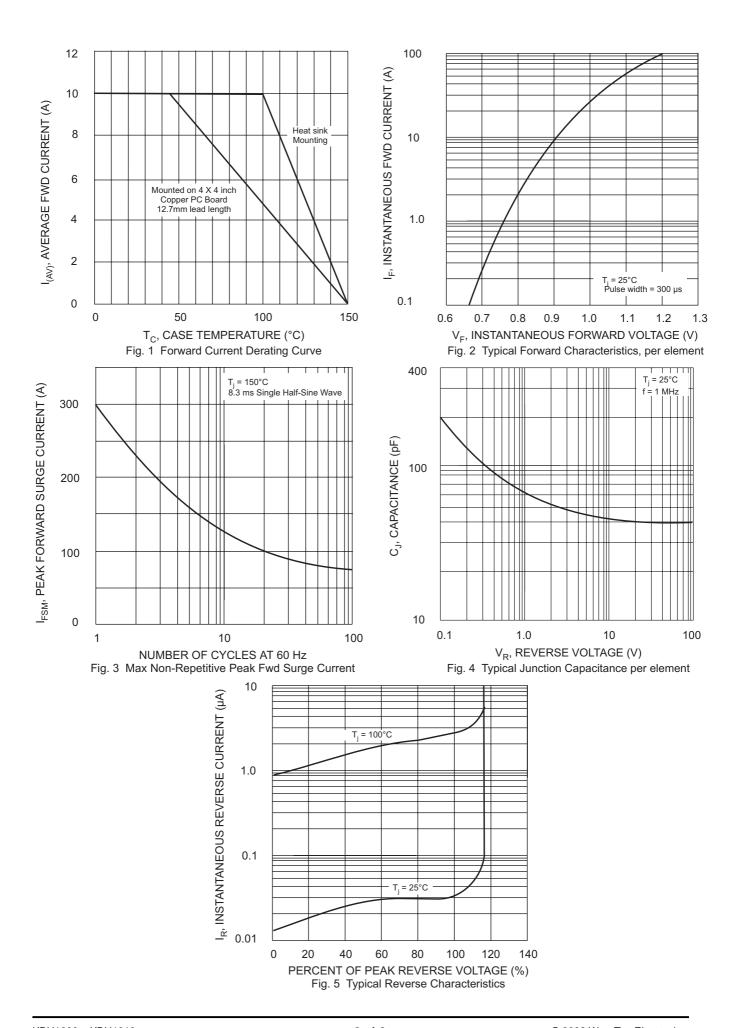
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	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	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>C</sub> = 100°C	lo	10					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	300					Α		
Forward Voltage (per element) @I <sub>F</sub> = 5.0A	VFM	1.0			V				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	lR	10 1.0					μA mA		
Rating for Fusing (t < 8.3ms) (Note 1)	l <sup>2</sup> t	373					A <sup>2</sup> s		
Typical Thermal Resistance (Note 2)	R <sub>θ</sub> JC	8.0						K/W	
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150					°C		

Note: 1. Non-repetitive for t > 1ms and < 8.3ms.

2. Thermal resistance junction to case per element mounted on PC board with 13.0x13.0x0.03mm thick land areas.



#### **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.

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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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