

KBU600 – KBU610 🏠 💫

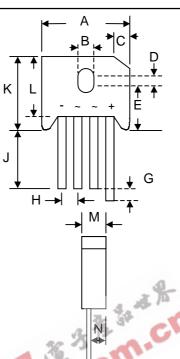
# 6.0A SINGLE-PHASE BRIDGE RECTIFIER

### **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: 10 cm-kg (8.8 in-lbs) 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	—		
К	—	19.30		
L	16.80	17.80		
Μ	6.60	7.10		
Ν	4.10	4.60		
Р	1.20	1.30		
All Dimensions in mm				

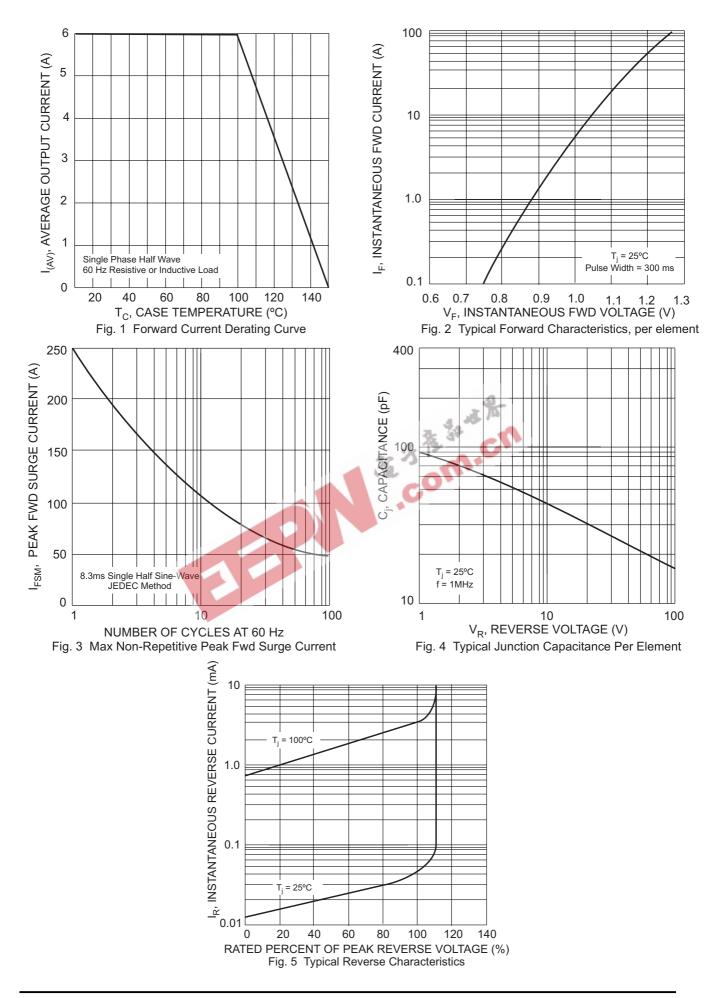
# Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

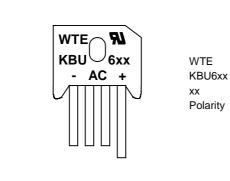
Characteristic	Symbol	KBU	KBU	KBU	KBU	KBU	KBU	KBU	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	<b>600</b> 50	<b>601</b> 100	<b>602</b> 200	<b>604</b> 400	<b>606</b> 600	<b>608</b> 800	<b>610</b> 1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current $@T_c = 100^{\circ}C$ (Note 1)	lo			•	6.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250				A			
Forward Voltage per leg $@I_F = 3.0A$	Vfm				1.0				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IR				5.0 1.0				μA mA
Typical Thermal Resistance per leg (Note 2)	RθJA	8.6				°C/W			
Typical Thermal Resistance per leg (Note 1)	RθJC	3.1				°C/W			
Operating and Storage Temperature Range	Tj, TSTG	-65 to +150					°C		

Note: 1. Mounted on 65 x 35 x 1.5mm Al. plate.

2. Mounted on PCB at 9.5mm lead length with 12mm<sup>2</sup> copper pad.



# MARKING INFORMATION



= Manufacturer's Logo
= Device Number
= 00, 01, 02, 04, 06, 08 or

10

= As Marked on Body

# **PACKAGING INFORMATION**

## BULK

Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)		
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
KBU600	SIL Bridge	400 Units/Box
KBU601	SIL Bridge	400 Units/Box
KBU602	SIL Bridge	400 Units/Box
KBU604	SIL Bridge	400 Units/Box
KBU606	SIL Bridge	400 Units/Box
KBU608	SIL Bridge	400 Units/Box
KBU610	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 Lead Free version (with Lead Free finish), add "-LF" suffix to place the same set of the sam

To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBU600-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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