

KBU600 − KBU610 Rohs



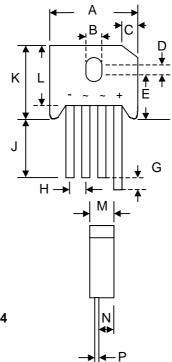
6.0A SINGLE-PHASE BRIDGE RECTIFIER

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	_		
K	_	19.30		
L	16.80	17.80		
М	6.60	7.10		
N	4.10	4.60		
Р	1.20	1.30		
All Dimensions in mm				

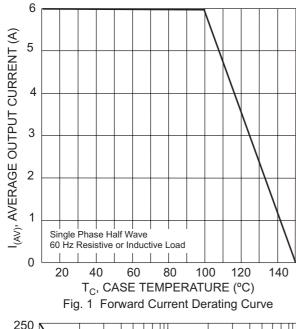
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

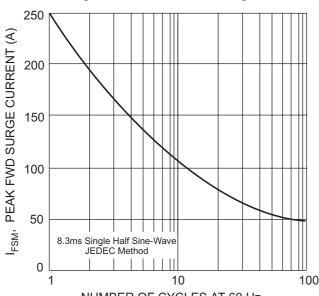
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBU 600	KBU 601	KBU 602	KBU 604	KBU 606	KBU 608	KBU 610	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 _C = 100°C (Note 1)	lo				6.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм				250				А
Forward Voltage per leg @I _F = 3.0A	VFM				1.0				V
	I R	5.0 1.0			μA mA				
Typical Thermal Resistance per leg (Note 2)	$R_{ heta}JA$	8.6				°C/W			
Typical Thermal Resistance per leg (Note 1)	R _θ JC	3.1					°C/W		
Operating and Storage Temperature Range	Тj, Tsтg	-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 12mm² copper pad.





NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

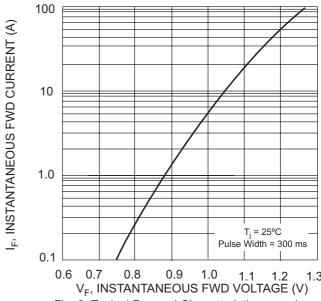


Fig. 2 Typical Forward Characteristics, per element

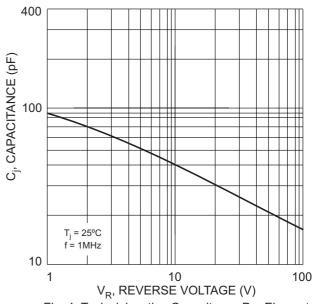
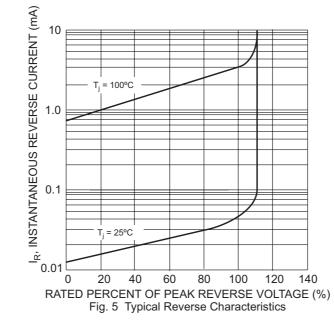
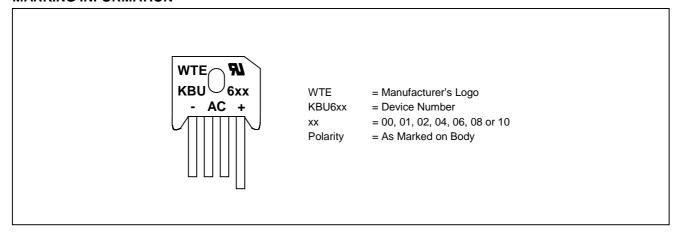


Fig. 4 Typical Junction Capacitance Per Element



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
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 part number above. For example, KBU600-LF.

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