

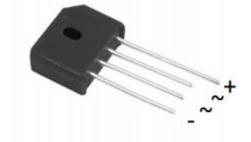
# **Bridge Rectifiers**

#### **Features**

- UL recognition, file #E230084
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

### **Typical Applications**

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.



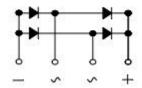
#### **Mechanical Data**

 Package: KBU Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

 Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: As marked on body





## ■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBU25005	KBU2501	KBU2502	KBU2504	KBU2506	KBU2508	KBU2510
Device marking code			KBU25005	KBU2501	KBU2502	KBU2504	KBU2506	KBU2508	KBU2510
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load,Tc =115°C	lO	Α	25						
Surge(Non-repetitive)Forward Current @60Hz half-sine wave, 1 cycle, Tj=25°C	IFSM	Α	400						
Current Squared Time @1ms≤t≤8.3ms Tj=25°C,Rating of per diode	l <sup>2</sup> t	A <sup>2</sup> S	666						
Storage Temperature	T <sub>stg</sub>	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBU25005	KBU2501	KBU2502	KBU2504	KBU2506	KBU2508	KBU2510
Maximum instantaneous forward voltage drop per diode	VF	<b>V</b>	IFM=12.5A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	10						

## **■Thermal Characteristics** (Ta=25°C Unless otherwise specified)

	PARAMETER	SYMBOL	UNIT	KBU25005	KBU2501	KBU2502	KBU2504	KBU2506	KBU2508	KBU2510
Thermal Resistance	Between junction and case,	RøJ-C	°C/W				1.4 <sup>(1)</sup>			

#### Notes

(1) Units Mounted on an aluminum plate heat sink.

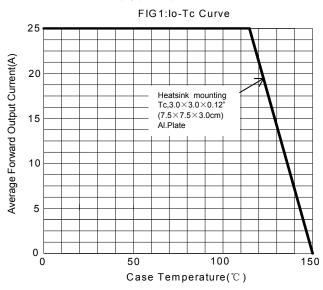


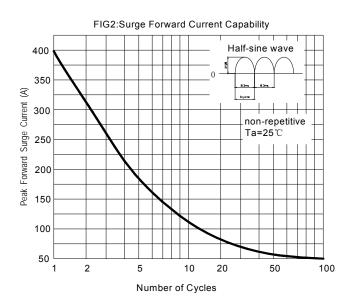
# **KBU25005 THRU KBU2510**

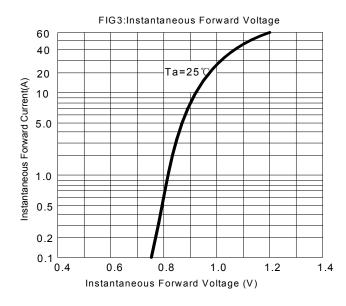
**■**Ordering Information (Example)

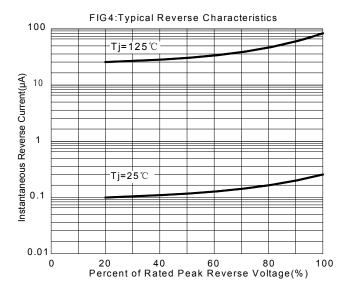
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBU25005~KBU2510	A1	Approximate 7.2	400	400	2400	Paper Box

## **■** Characteristics(Typical)



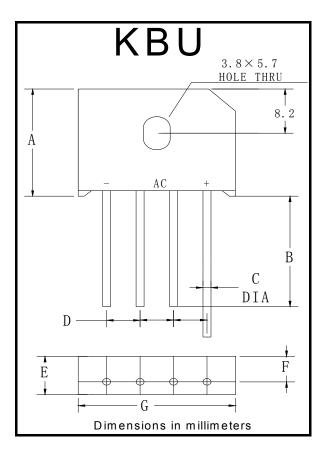








## ■ Outline Dimensions



KBU						
Dim	Min	Max				
Α	18.8	19.8				
В	20.0	/				
С	1.2	1.3				
D	4.6	5.6				
Е	6.8	7.1				
F	4.6	5.0				
G	22.7	23.7				



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