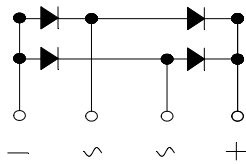
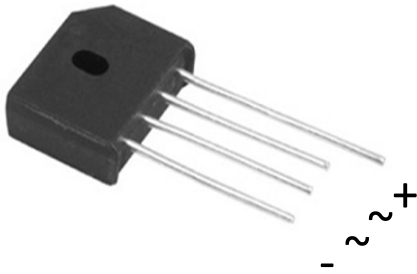


Bridge Rectifiers



Features

- UL recognition, file #E230084
- Glass passivated chip junction
- 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 (T_a=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
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load	With heatsink T _c =110°C	I _O	A	25.0					
	Without heatsink T _a =25°C			3.5					
Forward Surge Current (Non-repetitive) @8.3ms, Half-sine wave, 1 cycle, T _j =25°C	IFSM	A	400						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25°C			800						
Current Squared Time @1ms≤t≤8.3ms T _j =25°C, Rating of per diode	I ² t	A ² S	664						
Mounting torque @Recommend torque: 5kg·cm	Tor	kg·cm	8						
Storage temperature	T _{stg}	°C	-55 ~ +150						
Junction temperature	T _j	°C	-55 ~ +150						



KBU25005 THRU KBU2510

■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	V _F	V	IFM=12.5A					1.05		
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25°C					5		
			T _j =125°C					100		
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C					104		

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

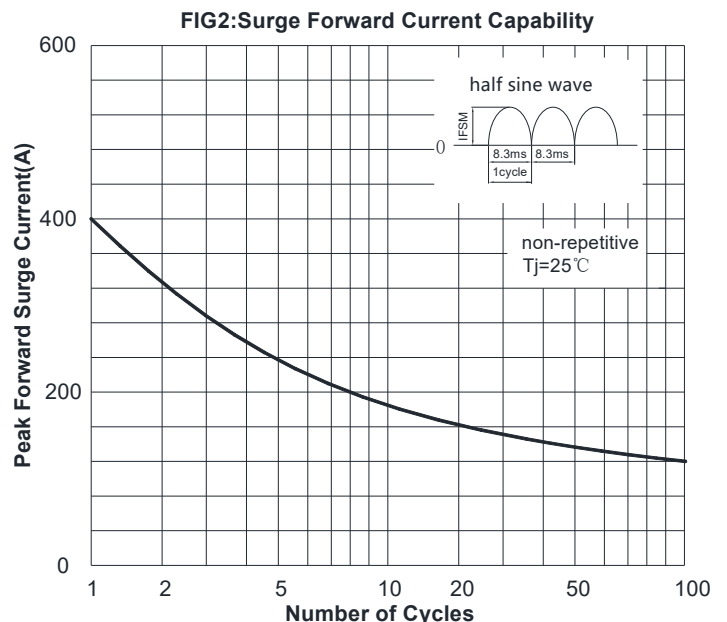
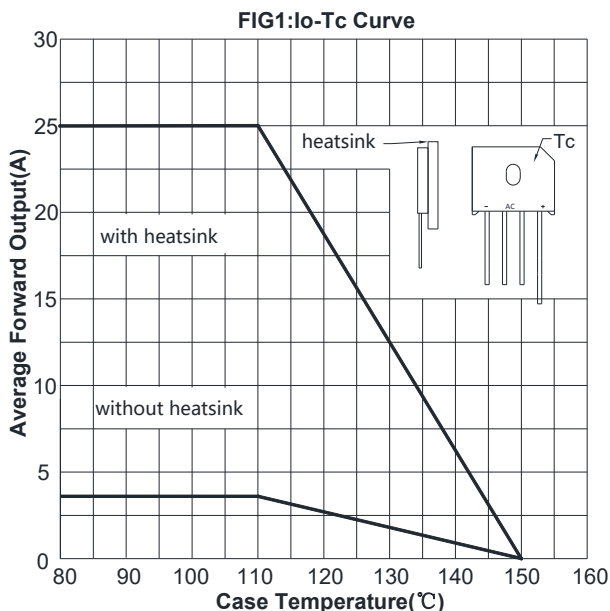
PARAMETER	SYMBOL	UNIT	KBU25005	KBU2501	KBU2502	KBU2504	KBU2506	KBU2508	KBU2510
Typical Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W					25.0	
	Between junction and case, With heatsink	R _{θJ-C}						1.4	

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM 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)





KBU25005 THRU KBU2510

FIG3: Typical Forward Voltage

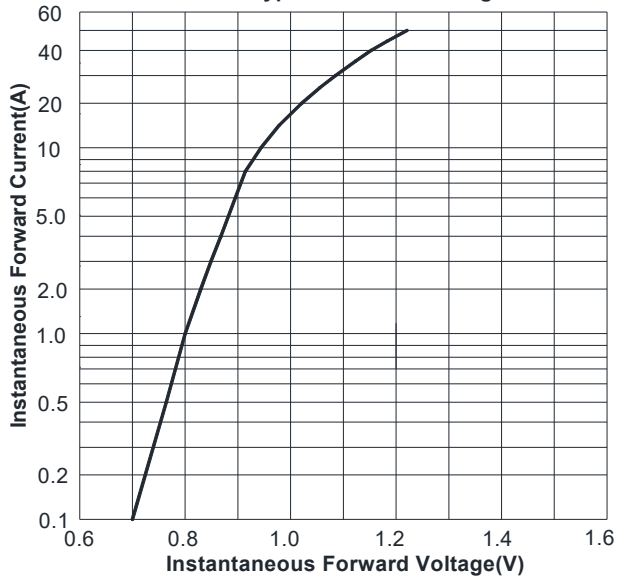
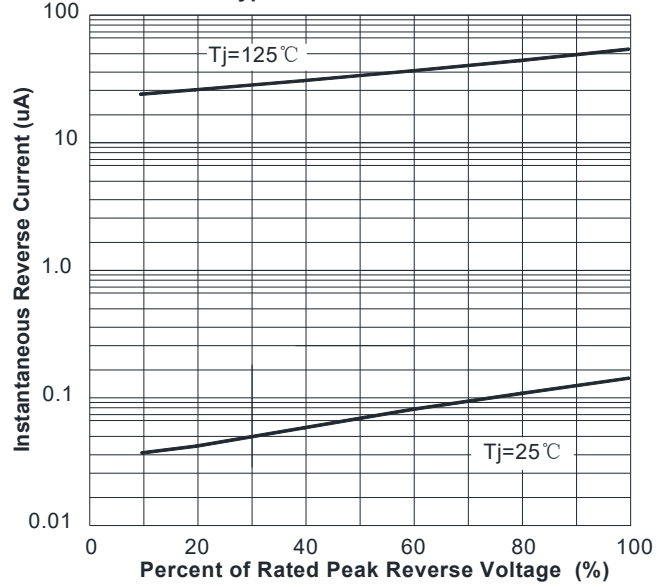
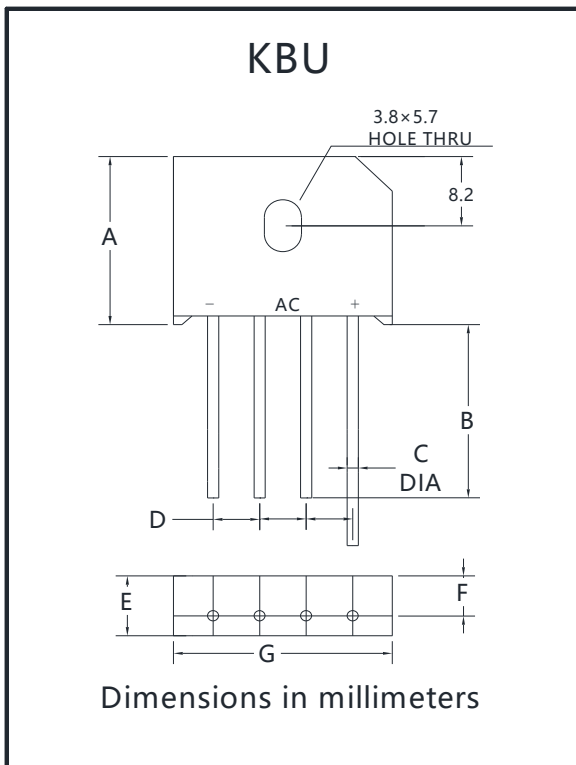


FIG4: Typical Reverse Characteristics



■ Outline Dimensions



KBU		
Dim	Min	Max
A	18.8	19.8
B	20.0	/
C	1.2	1.3
D	4.6	5.6
E	6.8	7.1
F	4.6	5.0
G	22.7	23.7



KBU25005 THRU KBU2510

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