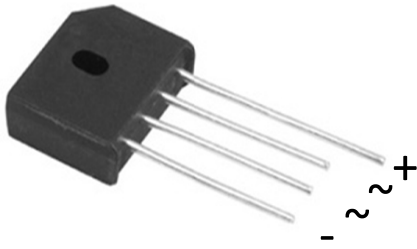


Bridge Rectifiers

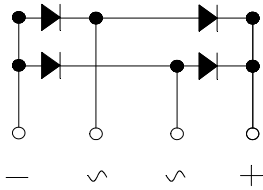


Features

- 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	KBU35005	KBU3501	KBU3502	KBU3504	KBU3506	KBU3508	KBU3510
Device marking code			KBU35005	KBU3501	KBU3502	KBU3504	KBU3506	KBU3508	KBU3510
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	IO	A	35						
Surge(Non-repetitive)Forward Current @60Hz half-sine wave, 1 cycle, Ta=25°C	IFSM	A	400						
Current Squared Time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	A²S	666						
Storage Temperature	Tstg	°C	-55 ~+150						
Junction Temperature	Tj	°C	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBU35005	KBU3501	KBU352	KBU3504	KBU3506	KBU3508	KBU3510
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=17.5A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	µA	V _{RM} =V _{RRM}	10						

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

PARAMETER	SYMBOL	UNIT	KBU35005	KBU35001	KBU35002	KBU35004	KBU35006	KBU35008	KBU35010
Thermal Resistance Between junction and case,	RθJ-C	°C/W	1.4 ⁽¹⁾						

Notes

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



KBU35005 THRU KBU3510

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBU35005~KBU3510	A1	Approximate 7.2	400	400	2400	Paper Box

Characteristics(Typical)

FIG1:Io-Tc Curve

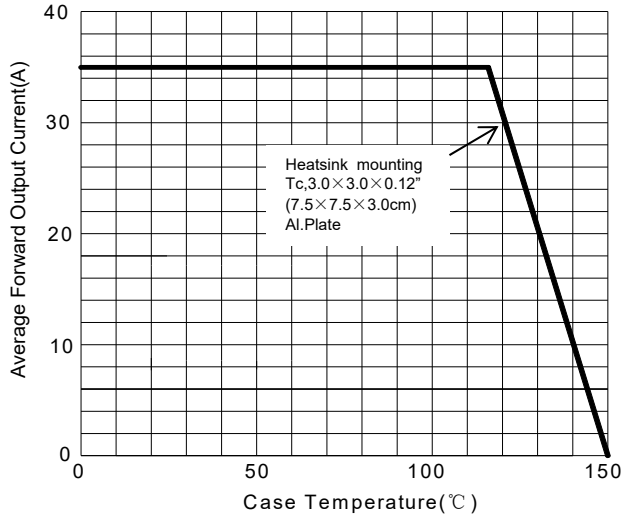


FIG2: Surge Forward Current Capability

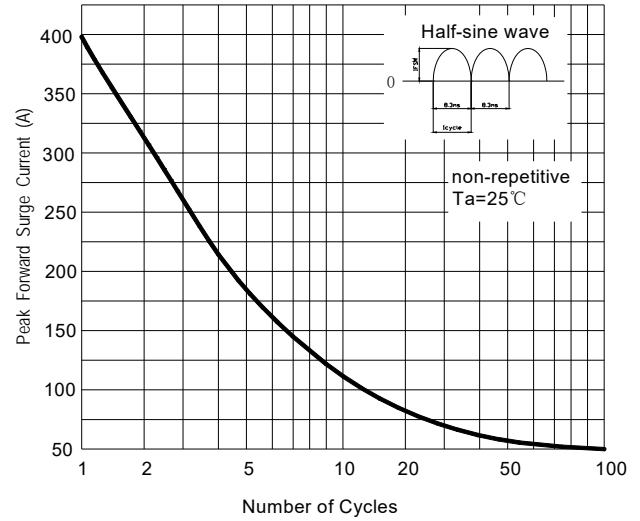


FIG3: Instantaneous Forward Voltage

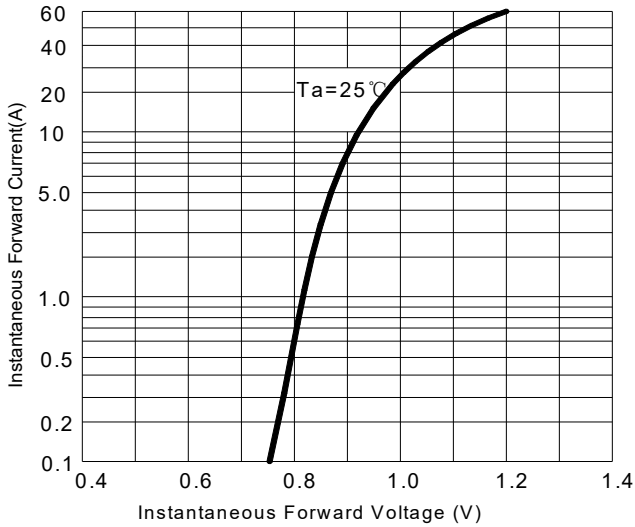
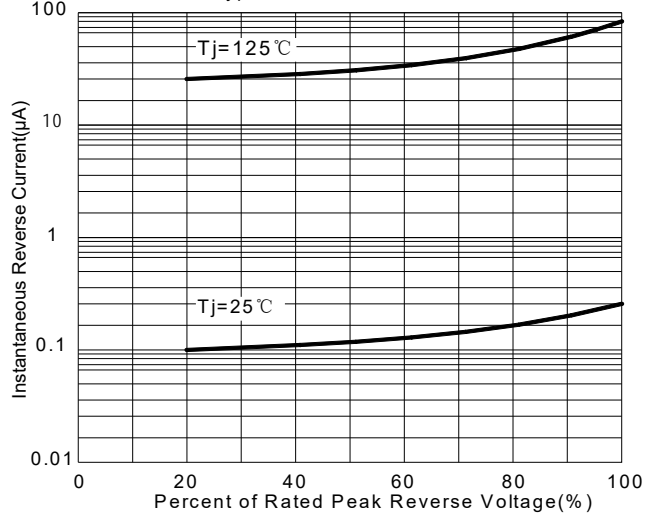


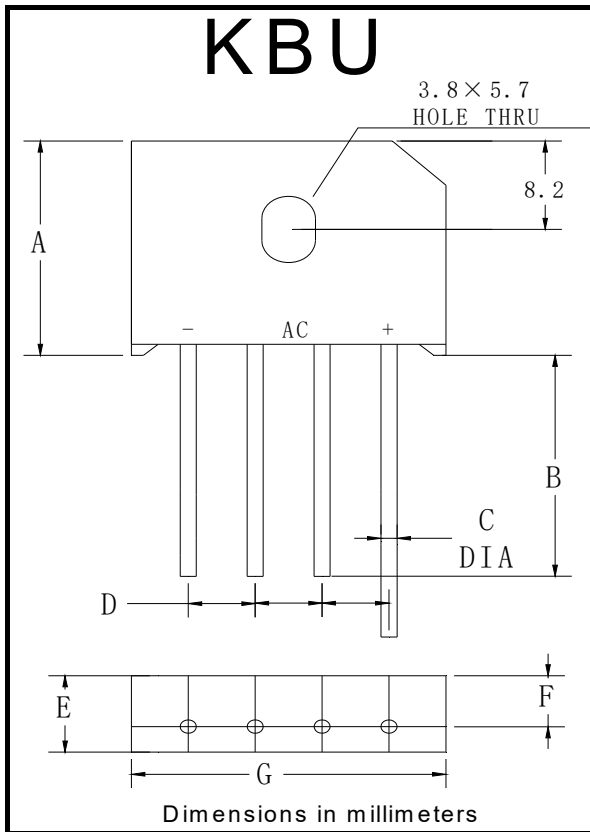
FIG4: Typical Reverse Characteristics





KBU35005 THRU KBU3510

■ 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	6.7	7.1
F	4.6	5.0
G	22.7	23.7



KBU35005 THRU KBU3510

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