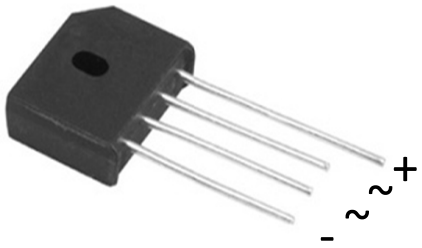
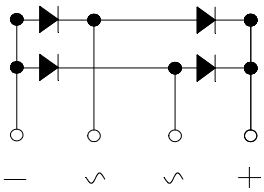
Bridge Rectifiers





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℃ 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	V_{RRM}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load,Tc =115℃	I_O	A	35						
Surge(Non-repetitive)Forward Current @60Hz half-sine wave, 1 cycle, Ta=25℃	I_{FSM}	A	400						
Current Squared Time @1ms≤t≤8.3ms Tj=25℃,Rating of per diode	I^2t	A^2S	666						
Storage Temperature	T_{stg}	℃	-55 ~+150						
Junction Temperature	T_j	℃	-55 ~+150						

■Electrical Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBU35005	KBU3501	KBU352	KBU3504	KBU3506	KBU3508	KBU3510
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=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℃ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	KBU35005	KBU35001	KBU35002	KBU35004	KBU35006	KBU35008	KBU35010
Thermal Resistance	Between junction and case,	$R_{\theta J-C}$	℃/W	1.4(1)						

Notes

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

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM 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

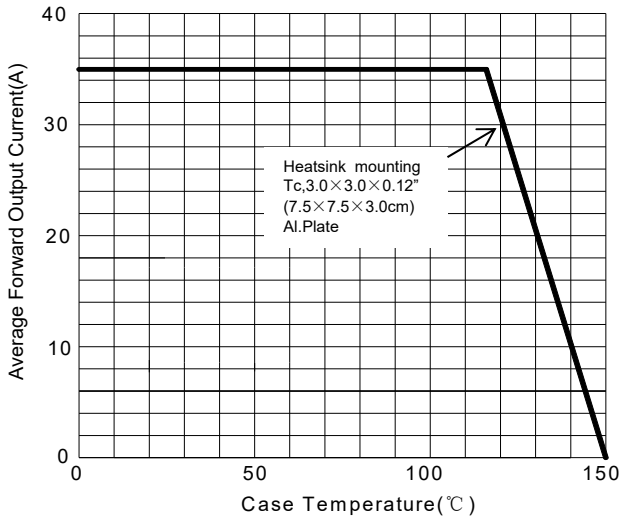


FIG2:Surge Forward Current Capability

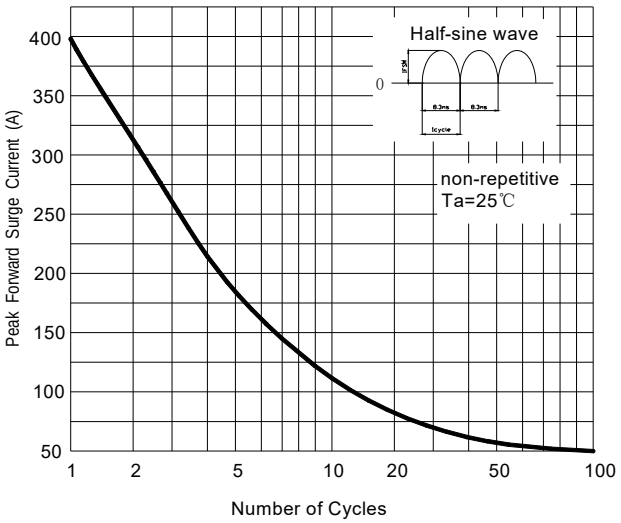


FIG3:Instantaneous Forward Voltage

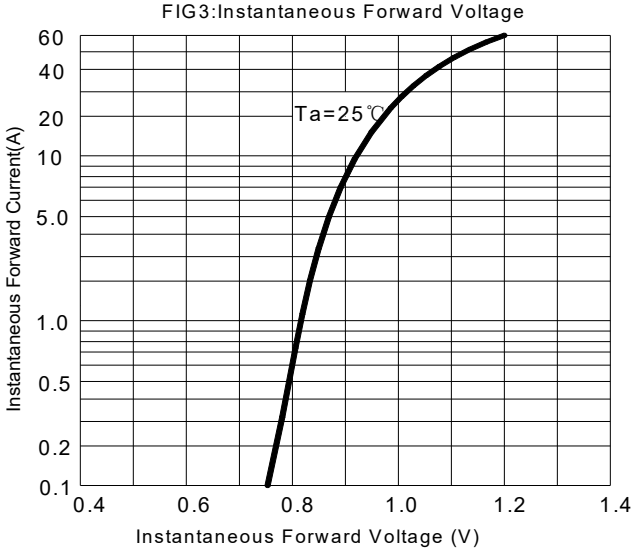
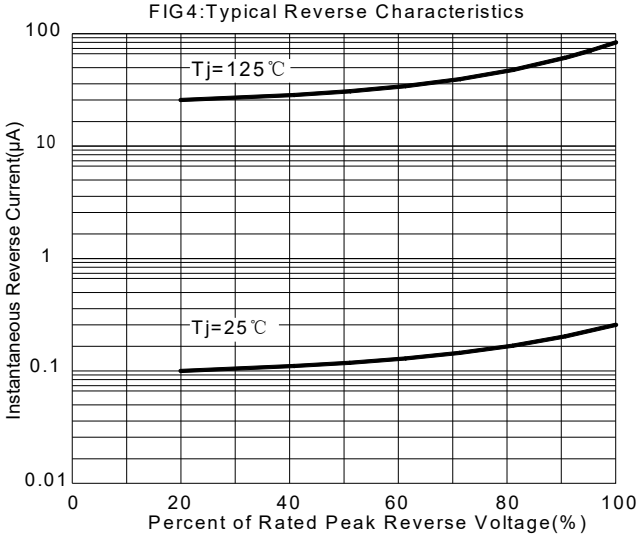
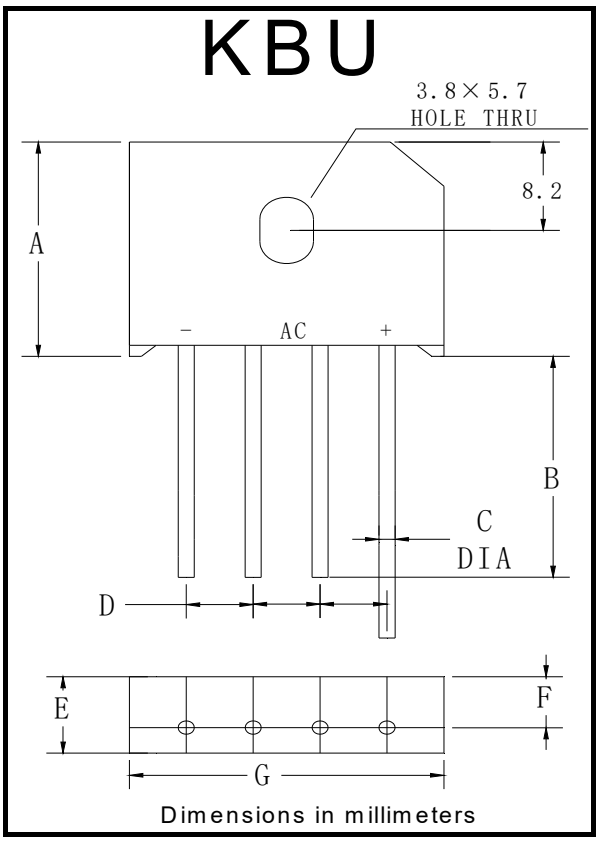


FIG4:Typical Reverse Characteristics



■ 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

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