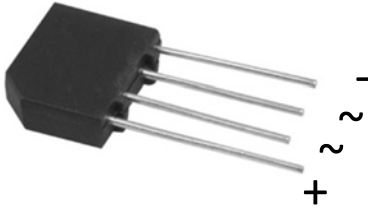


## Bridge Rectifiers

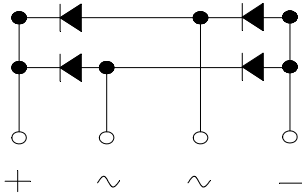


### Features

- 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:** KBP  
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 ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210
Device marking code			KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Without heatsink, $T_a=30^\circ\text{C}$	$I_O$	A	2						
Surge(non-repetitive)forward current @60HZ half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	IFSM	A	45						
Current squared time @1ms≤t<8.3ms $T_j=25^\circ\text{C}$ , rating of per diode	$I^2t$	A <sup>2</sup> S	8.4						
Storage temperature	Tstg	°C	-55 ~+150						
Junction temperature	Tj	°C	-55 ~+150						

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	IFM=1.0A	1.05						
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>RRM</sub>	μA	V <sub>RM</sub> =V <sub>RRM</sub>	10						

### ■ Thermal Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210
Thermal Resistance <sup>(1)</sup>	Between junction and ambient, Without heatsink	R <sub>θJ-A</sub>	30						
	Between junction and lead	R <sub>θJ-L</sub>	11						

Notes

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47×0.47”(12×12mm) copper pads



# KBP2005 THRU KBP210

## Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBP2005~KBP210	A1	Approximate 1.75	500	500	5000	Paper Box

## Characteristics (Typical)

FIG1:Io-Ta Curve

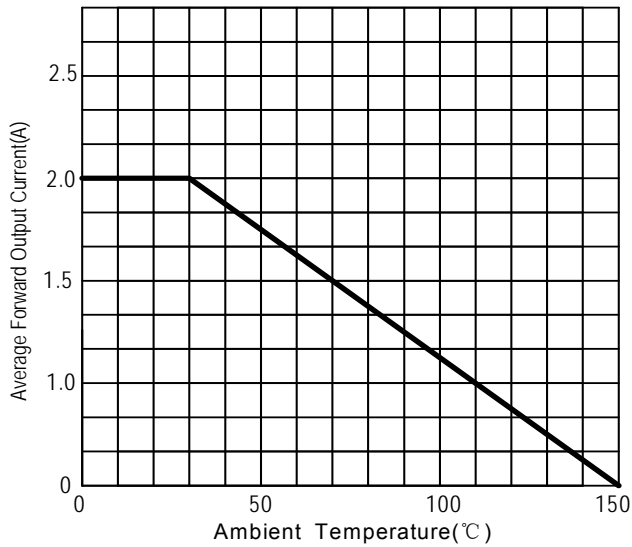


FIG2: Surge Forward Current Capability

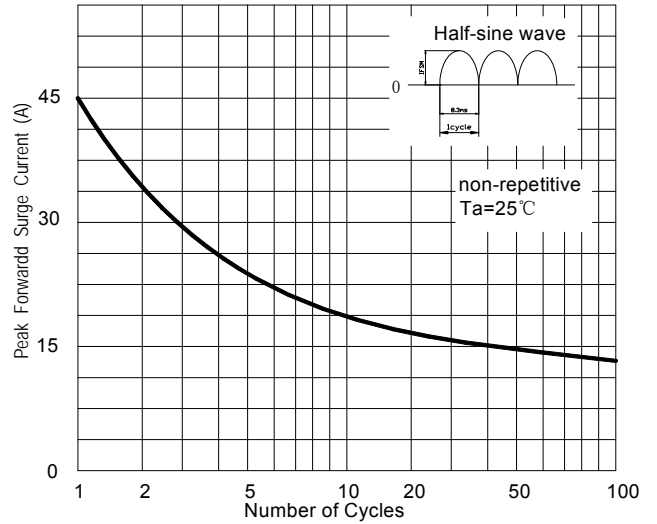


FIG3: Instantaneous Forward Voltage

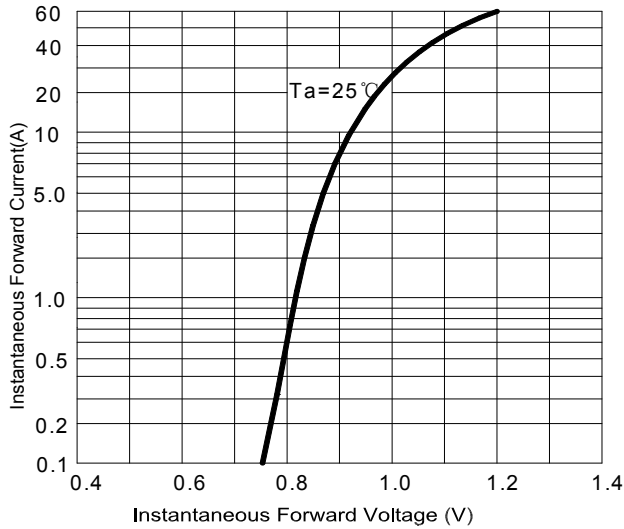
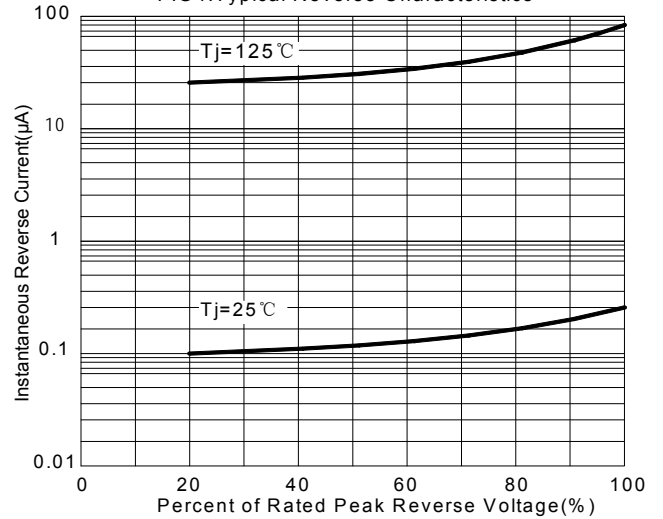


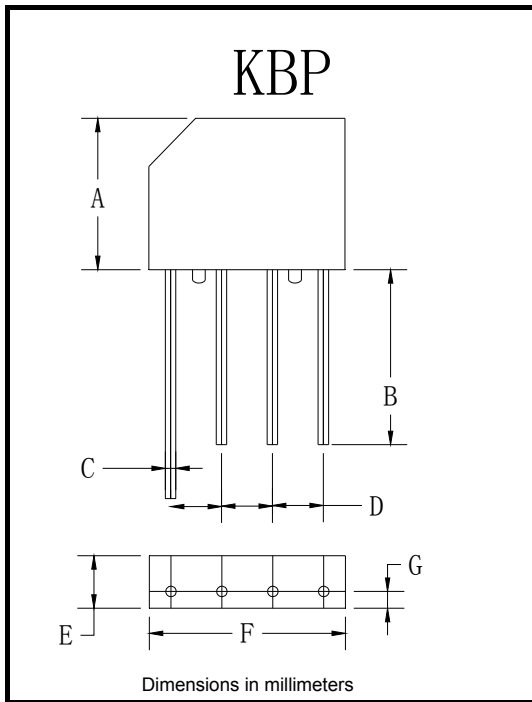
FIG4: Typical Reverse Characteristics





# KBP2005 THRU KBP210

## ■ Outline Dimensions



KBP		
Dim	Min	Max
A	11.0	11.6
B	12.7	/
C	0.7	0.9
D	3.6	4.1
E	3.7	3.95
F	14.4	15.0
G	1.10	1.27



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