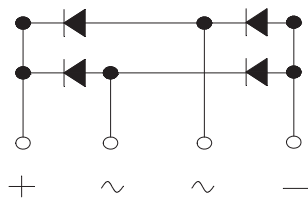
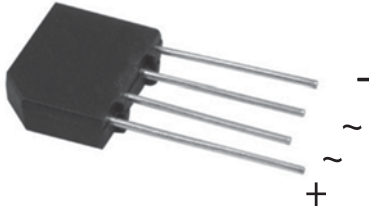


KBP2005 THRU KBP210

Bridge Rectifiers

RoHS
COMPLIANT



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 (Ta=25°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 , Ta =30°C	IO	A	2						
Surge(non-repetitive)forward current @60HZ half-sine wave, 1 cycle, Ta=25°C	IFSM	A	45						
Current squared time @1ms≤t<8.3ms Tj=25°C, rating of per diode	I ² t	A ² S	8.4						
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	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A	1.05						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	µA	VRM=VRRM	10						

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

PARAMETER	SYMBOL	UNIT	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210
Thermal Resistance ⁽¹⁾	Between junction and ambient, Without heatsink	RθJ-A	30						
	Between junction and lead	RθJ-L	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)

PREFERED 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

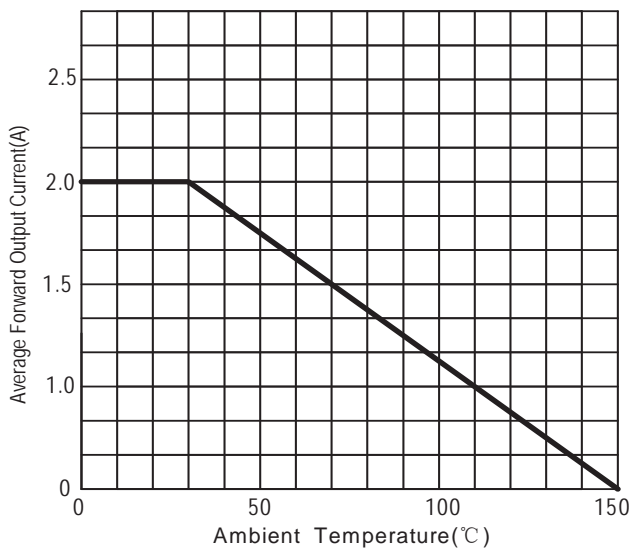


FIG2:Surge Forward Current Capability

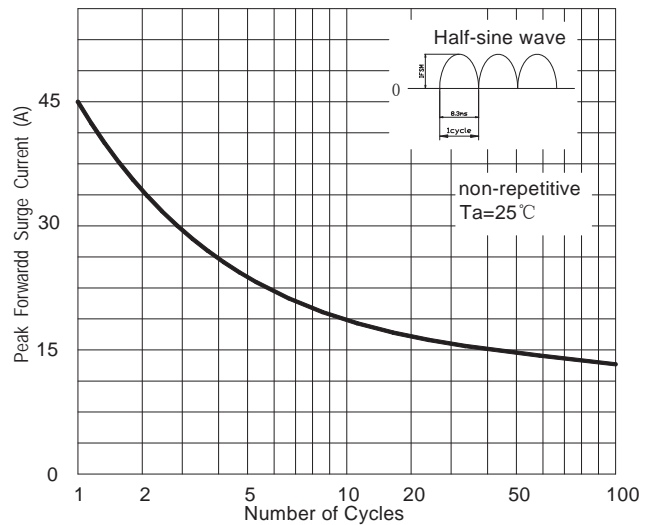


FIG3:Instantaneous Forward Voltage

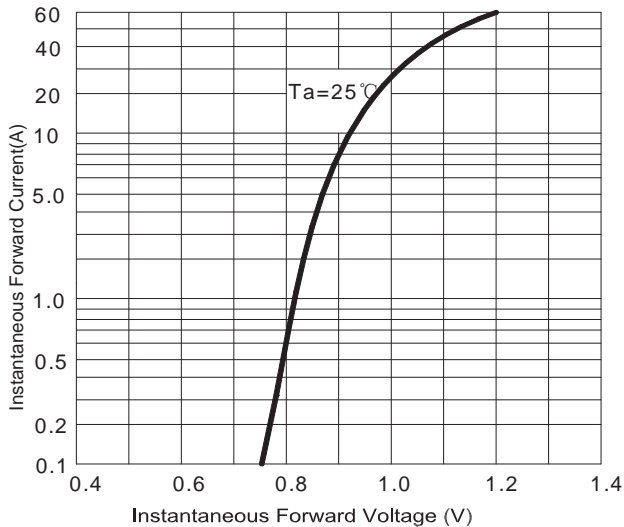
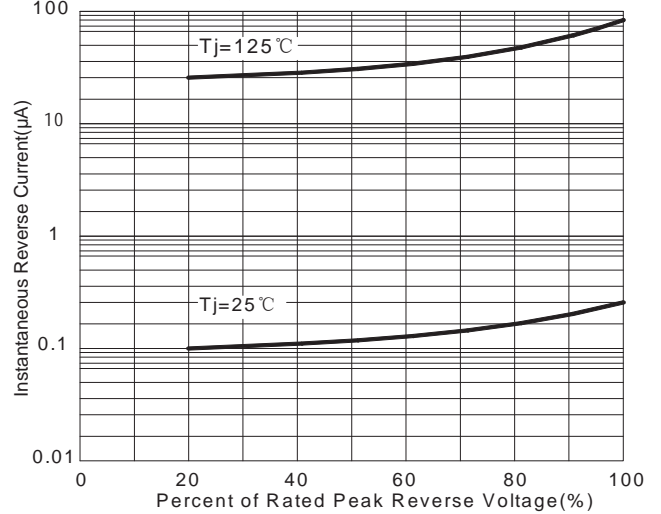
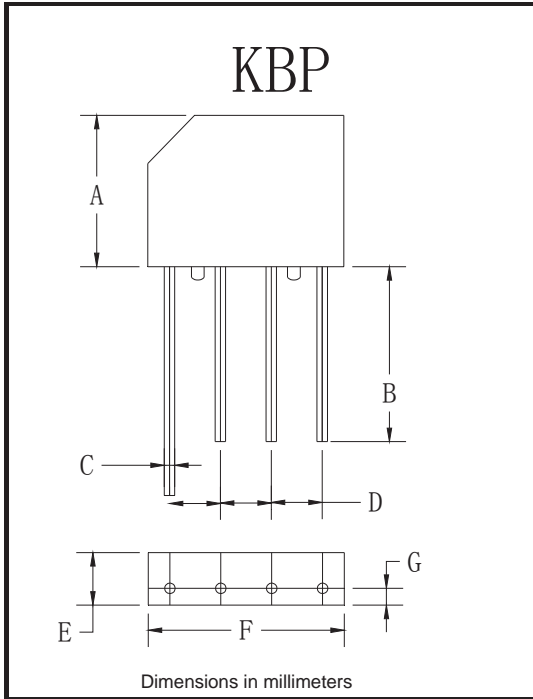


FIG4:Typical Reverse Characteristics



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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