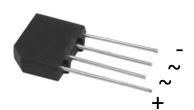
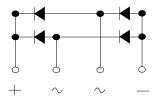




# **Bridge Rectifiers**





#### **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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310
Device marking code			KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310
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	Ю	Α	3						
Surge(non-repetitive)forward current @60HZ half-sine wave, 1 cycle, $T_a$ =25 $^{\circ}$ C	IFSM	Α	60						
Current squared time @1ms≤t<8.3ms Tj=25℃, rating of per diode	l <sup>2</sup> t	A <sup>2</sup> S	14.9						
Storage temperature	T <sub>stg</sub>	$^{\circ}$	-55 ~+150						
Junction temperature	Tj	$^{\circ}$	-55 ~+150						

### **■Electrical Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=1.5A		1.05					
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	10						

#### **■Thermal Characteristics** (T<sub>2</sub>=25°C Unless otherwise specified)

The man emanded of the control of th											
PARAMETER		SYMBOL	UNIT	KBP3005	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310	
Thermal	Between junction and ambient,	R <sub>0</sub> J-A	°C/W	20							
Resistance (1) Between junction and lead		R <sub>0</sub> J-L	CIVV	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

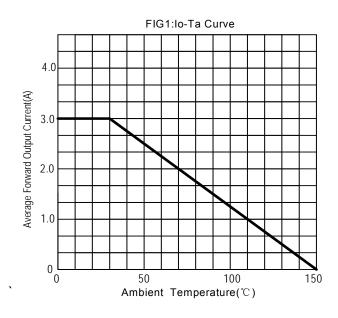


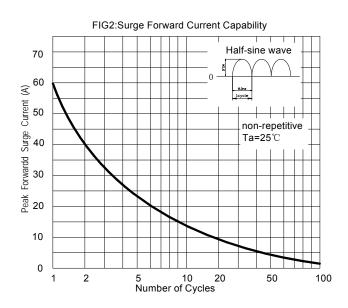
# **KBP3005 THRU KBP310**

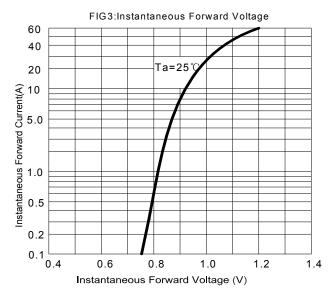
**■**Ordering Information (Example)

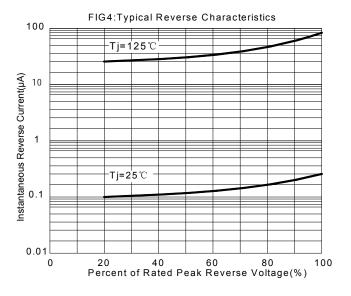
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBP3005~KBP310	A1	Approximate 1.75	500	500	5000	Paper Box

# **■** Characteristics (Typical)





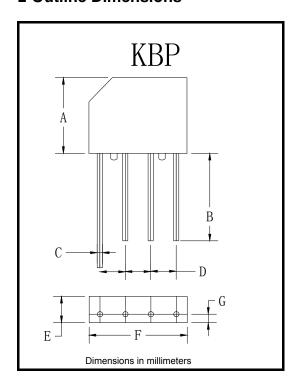






# **KBP3005 THRU KBP310**

# **■ Outline Dimensions**



KBP							
Min	Max						
11.0	11.6						
12.7	1						
0.7	0.9						
3.6	4.1						
3.7	3.95						
14.4	15.0						
1.10	1.27						
	Min 11.0 12.7 0.7 3.6 3.7 14.4						

# Ŋ

# KBP3005 THRU KBP310

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