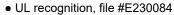


Bridge Rectifiers





- Glass passivated chip junction
- Suitable for printed circuit board or chassis mounting
- Compact construction
- High surge current capability
- Solder dip 275 °C max. 7s, per JESD 22-B106



The KBPC series of single phase rectifier bridge consists of four silicon junctions connected as a full bridge. These devices are intended for general use in industrial and consumer equipment.

Mechanical Date

• Package: KBPC6

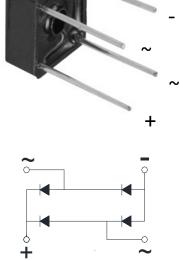
Molding compound meets UL 94 V-0

flammability rating, -

• 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	KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610
Device marking code			KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	٧	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, T _C =120℃	Ю	Α	6.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFSM	Α	150						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l ² t	A ² S	93.4						
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2.5						
Mounting torque @Recommend torque: 5kg·cm	Tor	kg∙cm	8						
Storage temperature	T _{stg}	°	-55 ~ +1 50						
Junction temperature	Tj	°	-55 ~ +1 50						



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

						,				
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=3.0A	1.0						
Maximum DC reverse current at			T _j =25°C	5						
rated DC blocking voltage per diode	IR	μA	T _j =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C		37					

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

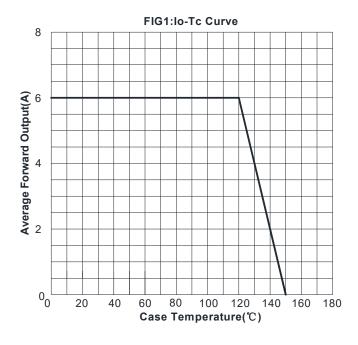
Р	ARAMETER	SYMBOL	UNIT	KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610
Thermal Resistance	Between junction and case, With heatsink	R ₀ J-C	°C/W				2.5			

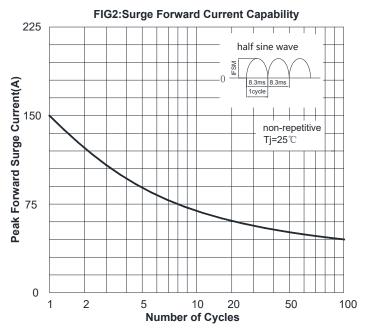
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■ Ordering Information (Example)

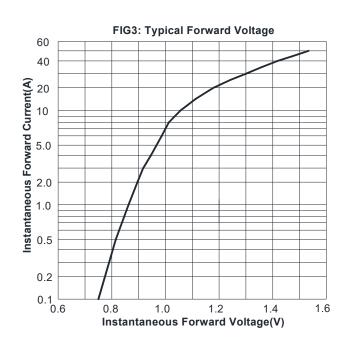
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBPC6005 ~ KBPC610	A1	Approximate 3.1	200	200	2000	Paper Box

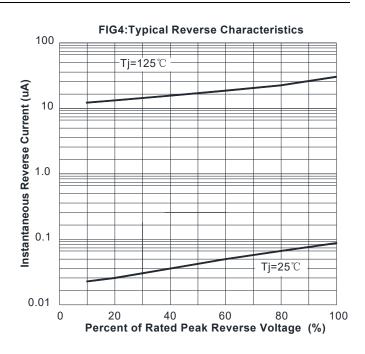
■ Characteristics (Typical)



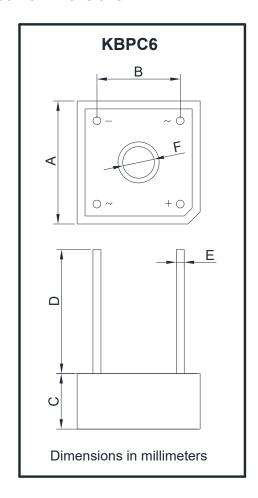








■ Outline Dimensions



KBPC6						
Dim	Min	Max				
Α	14.7	15.7				
В	10.3	11.3				
С	6.35	7.6				
D	15.0	1				
E	0.95	1.05				
F	3.8	4.2				



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