

Bridge Rectifiers

Features

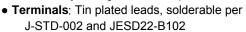
- UL recognition, file #E230084
- Suitable for printed circuit board or chassis mounti
- Compact construction
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

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.

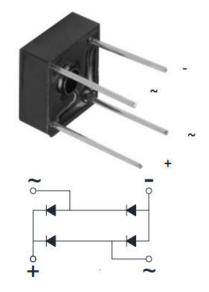
Mechanical Date

Package: KBPC1
 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant



• Polarity: As marked on body





■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBPC1005	KBPC101	KBPC102	KBPC104	KBPC106	KBPC108	KBPC110
Device marking code			KBPC1005	KBPC101	KBPC102	KBPC104	KBPC106	KBPC108	KBPC110
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, T _a =40°C	Ю	Α	2.0						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25°C	IFSM	Α	45						
Current Squared Time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l ² t	A ² S	8.5						
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$ C	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBPC1005	KBPC101	KBPC102	KBPC104	KBPC106	KBPC108	KBPC110
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=1 A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM				10			

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

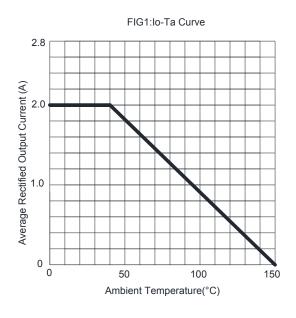
P.A	RAMETER	SYMBOL	UNIT	KBPC1005	KBPC101	KBPC102	KBPC104	KBPC106	KBPC108	KBPC110
Thermal Resistance	Between junction and ambient	R ₀ J-A	°C/W	35						

KBPC1005 THRU KBPC110

■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
KBPC1005~KBPC110	A1	Approximate 2.5	200	200	2000	Paper Box	

■ Characteristics (Typical)



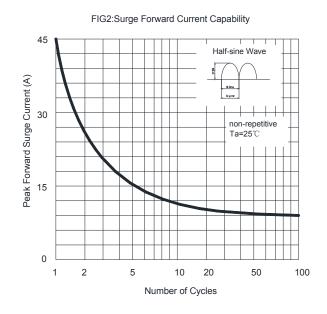
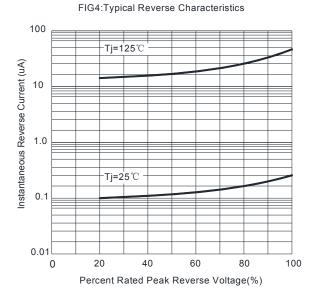
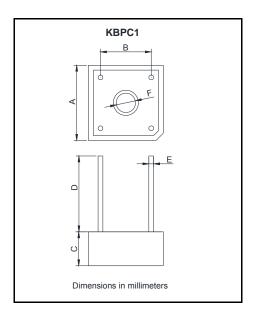


FIG3:Instantaneous Forward Voltage 60 Ta=25℃ 20 Instantaneous Forward Current (A) 10 5.0 0.5 0.2 0.1 — 0.4 0.6 0.8 1.0 1.2 1.4 Instantaneous Forward Voltage (V)





■ Outline Dimensions



KBPC1						
Dim	Min	Max				
Α	14.7	15.7				
В	10.3	11.3				
С	6.35	7.6				
D	15.0	1				
Е	0.74	0.82				
F	3.8	4.2				



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