

Bridge Rectifiers

Features

- UL recognition, file #E230084
- Suitable for printed circuit board or chassis mounting
- 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: KBPC8

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)

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PARAMETER	SYMBOL	UNIT	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
Device marking code			KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, Ta=40°C	Ю	Α	8						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25°C	IFSM	Α	150						
Current Squared Time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l²t	A ² S	93						
Storage Temperature	Tstg	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =4A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	· I _{RRM}	μA	V _{RM} =V _{RRM}				10			

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

P.A	ARAMETER	SYMBOL	UNIT	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
Thermal Resistance	Between junction and ambient	RθJ-A	°C/W	21						

■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
KBPC8005~KBPC810	A1	Approximate 4.75	200	200	2000	Paper Box	

■ Characteristics (Typical)

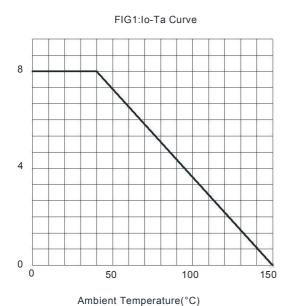


FIG3:Instantaneous Forward Voltage

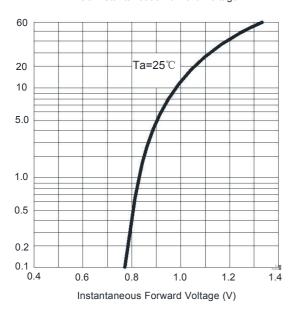


FIG2:Surge Forward Current Capability

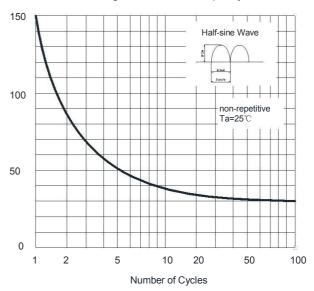
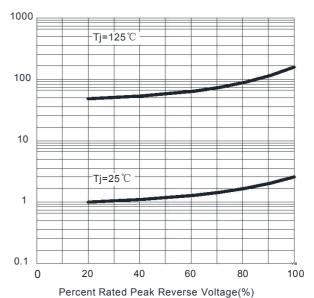
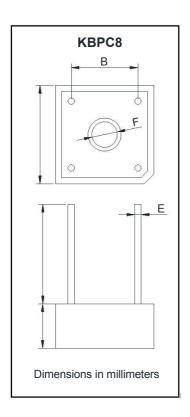


FIG4:Typical Reverse Characteristics





■ Outline Dimensions



KBPC8						
Dim	Min	Max				
Α	18.54	19.58				
В	12.2	13.2				
С	6.35	7.6				
D	15.0	1				
E	1.2	1.3				
F	3.8	4.2				



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