



# Bridge Rectifiers

## Features

- UL recognition file E230084
- Glass passivated chip junction
- Suitable for printed circuit board or chassis mounting
- Compact construction
- High surge current capability
- Solder dip 2 + 5  $\leq$  C max  $\leq$  per > ESD 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 Data

- Package: KBPC8
- Molding compound meets UL - 94-V0 flammability rating & RoHS-compliant
- Terminals: Tin plated leads & solderable per > -STD-002 and > ESD22-B102
- Polarity: As marked on body



## Maximum Ratings (Ta 125 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810
Device marking code			KBPC8005	KBPC801	KBPC802	KBPC804	6 D 7	8 D 7	6 D 7
Reverse voltage	V <sub>R</sub>	V	50	50	50	50	50	50	50
Forward current	I <sub>F</sub>	A	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Surge current	I <sub>SM</sub>	A	10	10	10	10	10	10	10
Forward voltage	V <sub>F</sub>	V	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Reverse current	I <sub>R</sub>	μA	5	5	5	5	5	5	5
Power dissipation	P <sub>D</sub>	W	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Storage temperature	T <sub>STG</sub>	°C	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150
Operating temperature	T <sub>OP</sub>	°C	-55 to 125	-55 to 125	-55 to 125	-55 to 125	-55 to 125	-55 to 125	-55 to 125
Lead temperature	T <sub>LD</sub>	°C	260	260	260	260	260	260	260
Waveform factor	WF		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Peak inverse voltage	PIV	V	50	50	50	50	50	50	50
Surge power dissipation	P <sub>SM</sub>	W	5	5	5	5	5	5	5
Thermal resistance	θ <sub>JA</sub>	°C/W	65	65	65	65	65	65	65
Mounting height	H	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Lead length	L	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Lead diameter	φ	mm	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Lead thickness	t	mm	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Lead spacing	S	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Lead angle	α	°	0	0	0	0	0	0	0
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1	1	1	1
Lead finish	F		1	1	1	1	1	1	1
Lead material	M		1	1	1	1	1	1	1
Lead coating	C		1	1	1	1	1	1	1
Lead plating	P		1	1	1	1	1	1	1
Lead thickness	T		1	1	1	1	1	1	1
Lead diameter	D		1	1	1	1	1	1	1
Lead spacing	S		1	1	1	1	1	1	1
Lead angle	α		1	1	1	1			



Electrical Characteristics (Ta



**Outline Dimensions**

KBPC8		
Dim	Min	Max
A	18 " 54	1 - " 58
B	12 " 2	13 " 2



# KBPC8005 THRU KBPC810

## Disclaimer

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