

Product Specification

Number: KBPC5010-KBPC

Name: Rectifier bridge

Customer: _____

Date: 2025-12-17



WWW.KLSELE.COM

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Compi	Check	Review	Approva
Jenny	Jack.C		

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高电流玻璃钝单相桥式整流器

HIGH CURRENT GLASS PASSIVATED SINGLE_PHASE BRIDGE RECTIFIFR

特 点

FEATURES

The plastic package has Underwriters Laboratory
flammability recognition 94V-0

外壳已经 UL 可燃性认证 94V_0

Integrally molded heatsink provide very low thermal
resistance for maximum heat dissipation

铝散热片，热阻抗低，散热量大

Universal 3_way terminals; snap_on, wire wrap
_around, or P.C. Board mounting

通用 3_路端子；搭锁，引线缠绕或 PC 板安装

Surge overload ratings to 400 Amperes

浪涌过载额定值达 400 安培

Glass passivated chip junctions

玻璃钝芯片结

High temperature soldering guaranteed:

260°C/10 seconds at 5lbs., (2.3kg)tension

高温焊接保证：300°C/10 秒，拉力，2.3kg。

机械数据

MECHANICAL DATA

Terminals:Nickelplated.25 " (6.35mm) Faston lugs

端子：镀镍 0.25 " (6.35mm) 接线端子

Mounting position: Bolt doen on heat_sink with

Silicone thermal compound between bridge and

Mounting surface for maximum heat transfer

efficiency. with number 5 screw

安装位置：用 M5 螺丝固定在散热片上，桥和安

装表面之间填充硅热混合物以达到最佳的散热

效果

polarity: polarity symbols molded on body

极性：极性符号铸在管体上

Weight: 17grams

重量：17 克

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最大额定值 Absolute MAX rating

Item 项 目	Symbol 符号	Conditions 条 件	Ratings 额定值	Unit 单 位
Storage temperature 贮存温度	Tstg		-40~150	℃
Operating junction Temperature 结 温	T _J		150	℃
Max reverse voltage 最大反向电压	V _{RM}			
KBPC5002 -W			200	V
KBPC5004 -W			400	V
KBPC5006 -W			600	V
KBPC5008 -W			800	V
KBPC5010 -W			1000	V
Average rectified forward current 平均正向整流电流	I _O	50Hz Sine wave resistance load T _c =85℃ 50Hz 正弦波电阻负载	50	A
Peak Surge forward Current 浪涌电流	I _{FSM}	Non-repetitive 50Hz 10ms Sine wave T _j =25℃ 不重复 50Hz 10ms 正弦波	400	A
Dielectric strength 绝缘强度	V _{dia}	Terminals to case AC 1 minute 端子与管壳间 AC 1 分钟	2	KV

电性特征 Electrical characteristics TA=25℃

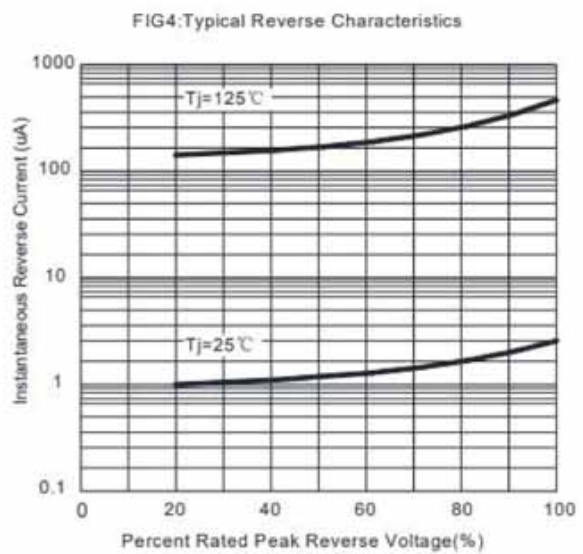
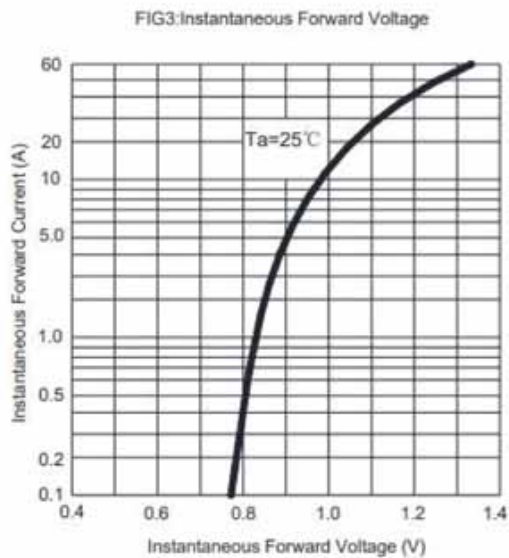
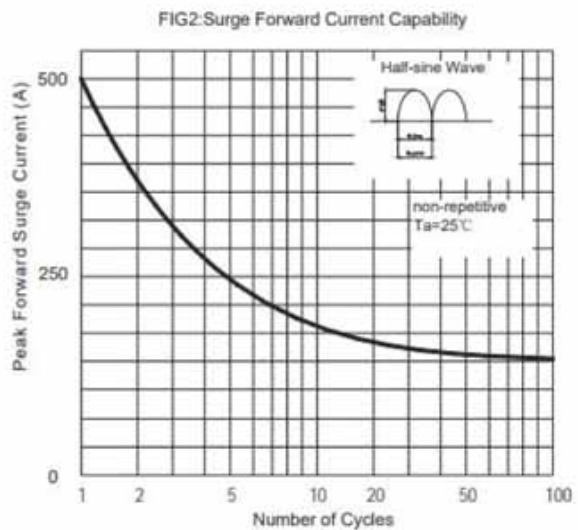
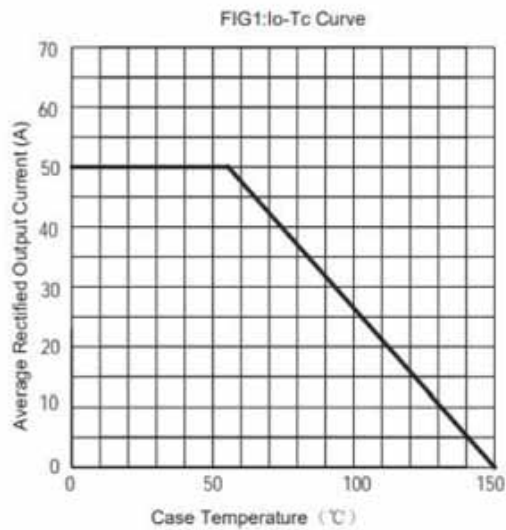
Forward Voltage 正向电压	V _F	I _F =25A	Max 1.05	V
Reverse current 反向漏电流	I _R	V _R =V _{RM}	Max 10	μ A
Thermal reslstance 热 阻	Q _{JC}	Junction to Case 结点管壳间	Max 1.5	℃/W

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■ Ordering Information (Example)

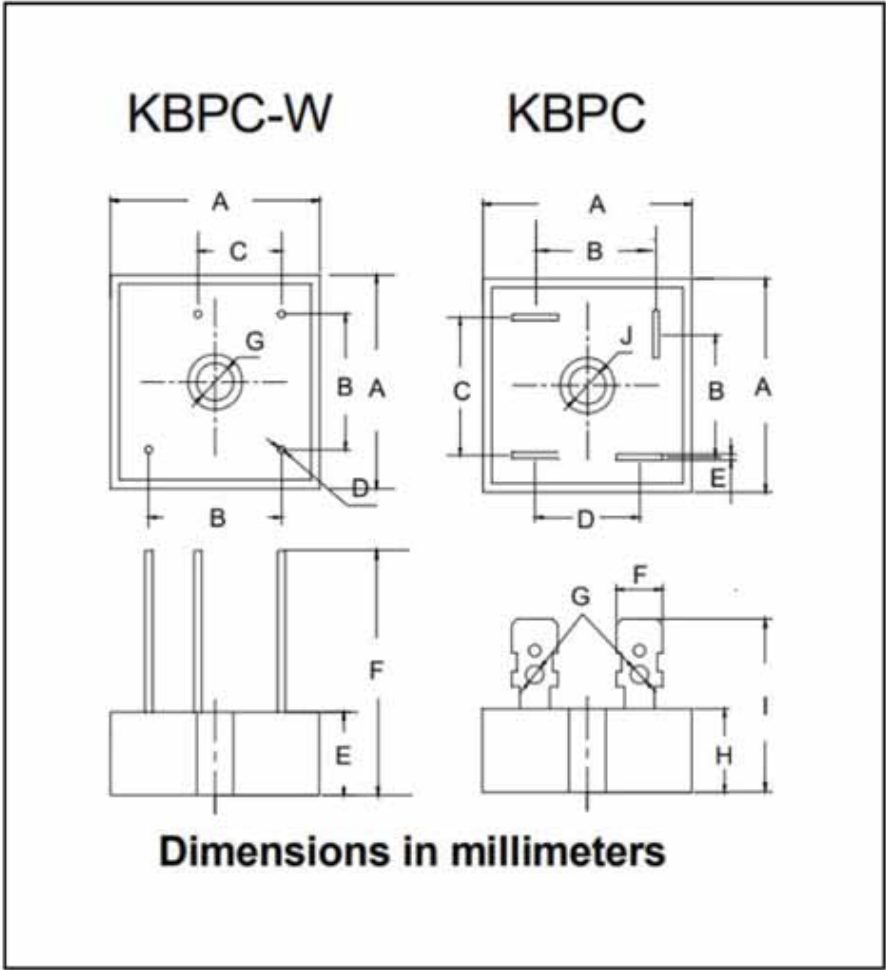
PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBPC50005-KBPC5010	A1	Approximate 24.5	50	50	500	Paper Box
KBPC50005W-KBPC5010W	A1	Approximate 22.5	50	50	500	Paper Box

■ Characteristics (Typical)



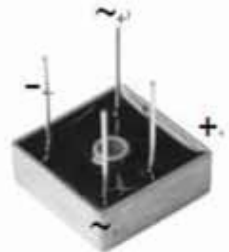
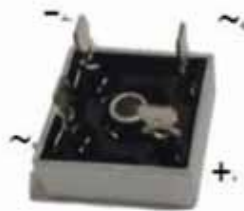
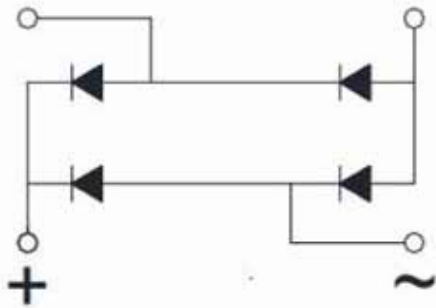
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外型尺寸



KBPC-W		
Dim	Min	Max
A	28.2	28.8
B	17.1	19.1
C	10.4	12.4
D	0.95	1.05
E	10.8	11.2
F	30	
G	5	5.5

KBPC		
Dim	Min	Max
A	28.2	28.8
B	15.3	17.3
C	17.1	19.1
D	13.2	15.2
E	0.75	0.85
F	6.2	6.4
G	2.3	2.5
H	10.8	11.2
I	19	
J	5	5.5



主要原材料

序 号	原材料	型 号	规 格	用 量	产 地	备 注
1	芯片	180		4 只		
2	桥壳	环氧壳	28X28	1 只		
3	环氧树脂	9001A/B	黑色	7Kg		

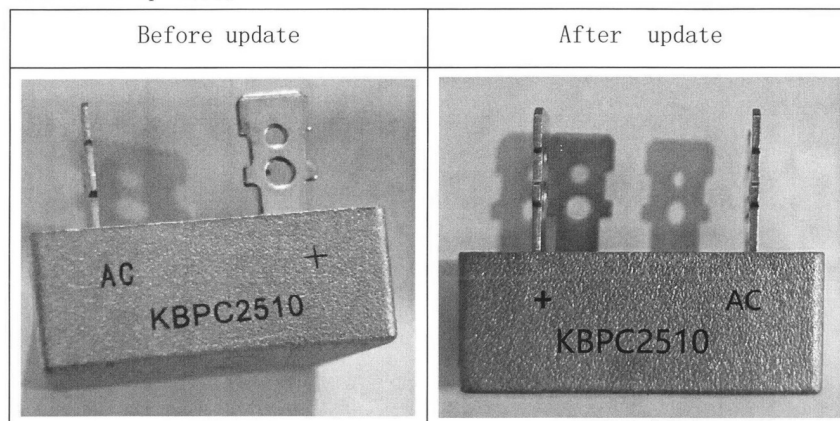
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Print Change Notification

Dear customers:

Hello! KLS is committed to becoming the world's leading provider of smart energy solutions, and has always adhered to technological innovation to enhance customer value.

In order to improve the efficiency of product production and delivery, our company is committed to the printing direction of KBPC series products has been updated:



The improved product does not affect the function and use of the product.

The above improvement plan will be gradually switched from December 30, 2023. Due to the different inventory of each dealer, there may be different degrees of coexistence of new and old products during the switching period, which is hereby explained.

If you have any product questions, please contact the customer center (0086-574-86824882)