KBPC10005 THRU KBPC1010

Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 10 Amperes

Features

- Low forward voltage drop
- Electrically isolated base -2000 Volts
- High surge forward current capability
- •Meet UL flammability classification 94V-0

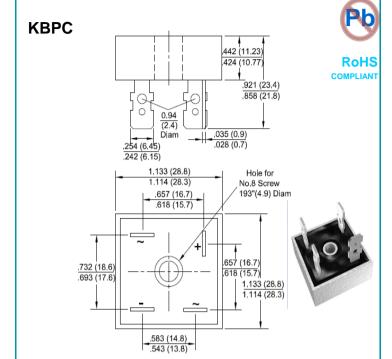
Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Note: Products with logo are made by HY Electronic (Cayman) Limited.

Applications

 General purpose use in AC/DC bridge full wave rectification, for power supply, industrial automation applications, etc.



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

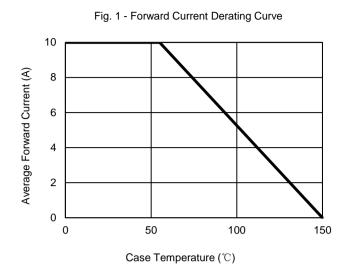
Single phase, half wave, 60Hz, resistive or inductive load.

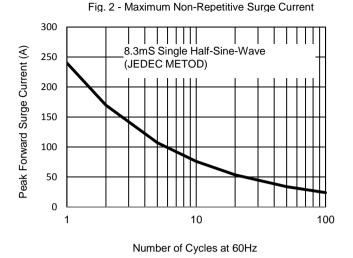
For capacitive load, derate current by 20%.

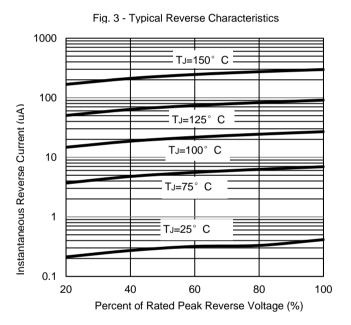
Characteristics	Symbol	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	Unit
	Symbol	10005	1001	1002	1004	1006	1008	1010	
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Tc=55 $^{\circ}$ C	I(AV)	10							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	240							Α
Superimposed on Rated Load (JEDEC Method)	IFSIVI								
I ² t Rating for Fusing (t<8.3mS)	l ² t	240							A ² s
Peak Forward Voltage per Diode at 5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated	lr	10							μA
DC Blocking Voltage per Diode @Tj=25 $^{\circ}$ C	IK.								μΛ
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

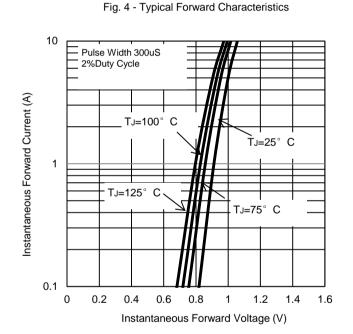
KBPC10*-B-00-00/01











The curve above is for reference only.

KBPC10*-B-00-00/01 Rev. 11, 18-May-2020



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ALL specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

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