

KBPC50005 THRU KBPC5010

Silicon Bridge Rectifiers

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

Features

- Low forward voltage drop
- Electrically isolated base -2000 Volts
- High surge forward current capability
- Materials used carries U/L recognition

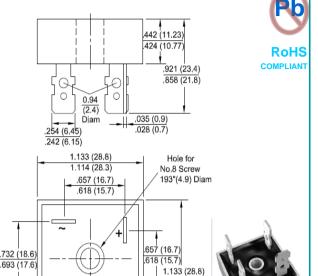
Mechanical Data

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

Applications

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

KBPC



1.114 (28.3)

Package Outline Dimensions in Inches (Millimeters)

583 (14.8) 543 (13.8)

Maximum Ratings and Electrical Characteristics

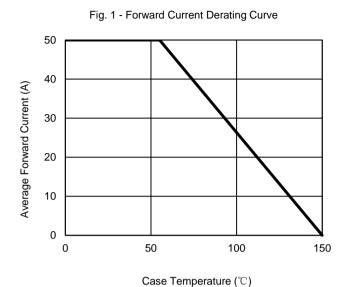
Rating at 25℃ ambient temperature unless otherwise specified.

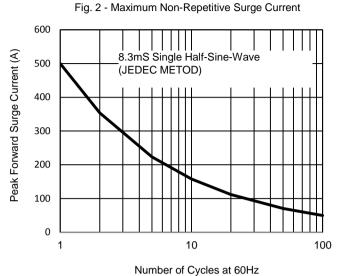
Single phase, half wave, 60Hz, resistive or inductive load.

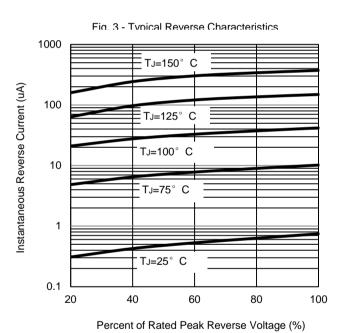
For capacitive load, derate current by 20%.

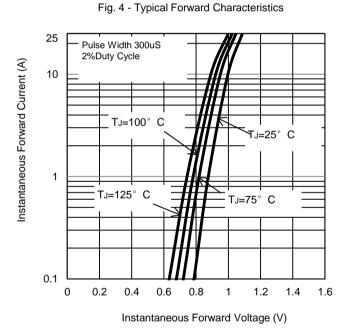
Characteristics	Symbol	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	Unit
	Зуппоп	50005	5001	5002	5004	5006	5008	5010	
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Tc=55 $^{\circ}$ C	I(AV)	50							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM				500				Α
Superimposed on Rated Load (JEDEC Method)	IFSIVI	300							^
I ² t Rating for Fusing (t<8.3mS)	l ² t	1037.5							A ² s
Peak Forward Voltage per Diode at 25A DC	VF	1.1							V
Maximum DC Reverse Current at Rated	ln.	IR 10						μA	
DC Blocking Voltage per Diode @TJ=25°C	IK	IN TO							μΑ
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$













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