KBPC25005 THRU KBPC2510

Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 25 Amperes

Features

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

Mechanical Data

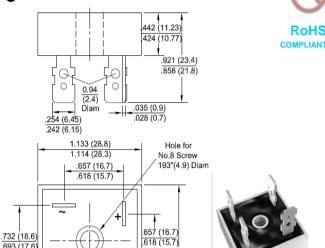
- Polarity: Symbol marked on body
- Mounting position: Any

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.

KBPC



1.133 (28.8) 1.114 (28.3)

Package Outline Dimensions in Inches (Millimeters)

.583 (14.8) .543 (13.8)

Maximum Ratings and Electrical Characteristics

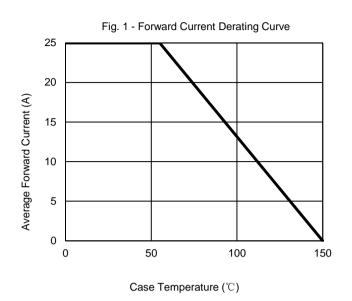
Rating at 25°C ambient temperature unless otherwise specified.

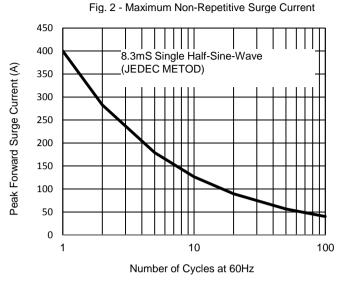
Single phase, half wave, 60Hz, resistive or inductive load.

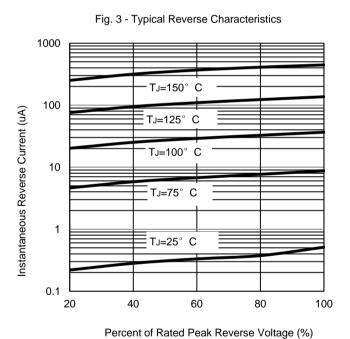
For capacitive load, derate current by 20%.

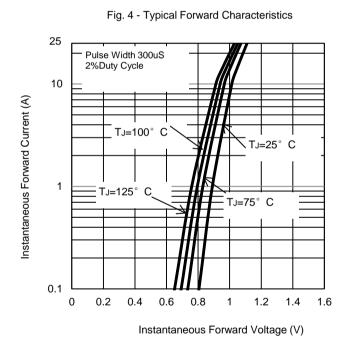
Characteristics	Symbol	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	Unit
	Syllibol	25005	2501	2502	2504	2506	2508	2510	
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Tc=55 $^{\circ}$ C	I(AV)	25							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	400							Α
Superimposed on Rated Load (JEDEC Method)	IFSIVI								
I ² t Rating for Fusing (t<8.3mS)	l ² t	664							A ² s
Peak Forward Voltage per Diode at 12.5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated	l _R	10							
DC Blocking Voltage per Diode @TJ=25℃	IK	IK IU							μA
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$
		-							











The curve above is for reference only.



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