KBPC25005G THRU KBPC2516G

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1600 Volts Forward Current - 25 Amperes

Features

- Glass passivated chip
- Low forward voltage drop

Mechanical Data

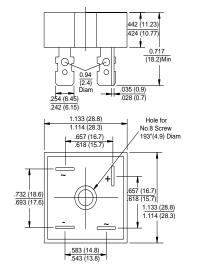
- Polarity: Symbol marked on body
- Mounting position: Any

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

Applications

 General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.

KBPCG





RoHS



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.

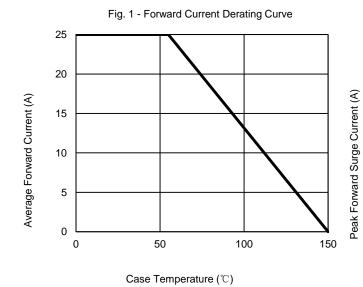
For capacitive load, derate current by 20%.

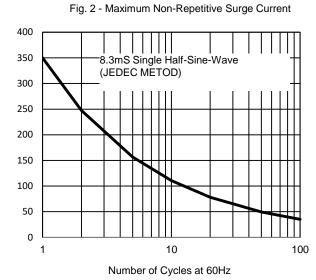
Characteristics	Symbol	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	Unit
	Symbol	25005G	2501G	2502G	2504G	2506G	2508G	2510G	2512G	2514G	2516G	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	840	980	1120	V
Maximum Average Forward Rectified Current @Tc=55 °C	I(AV)	25										Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	IFSM 350										А
Superimposed on Rated Load (JEDEC Method)	IFSIVI		330									
I ² t Rating for Fusing (t<8.3mS)	l ² t	508.4									A ² s	
Peak Forward Voltage per Diode at 12.5A DC	VF	1.1										V
Maximum DC Reverse Current at Rated @T _J =25 C	lr	5										μА
DC Blocking Voltage per Diode @TJ=125℃	IK IK	500										
Typical Thermal Resistance to Ambient (Note1)	Reja	5										°C/W
Typical Thermal Resistance to case (Note1)	Rejc	2										
Typical Thermal Resistance to lead (Note1)	Røjl	1.5										
Operating Junction Temperature Range	TJ	-55 to +150										$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to +150										°C

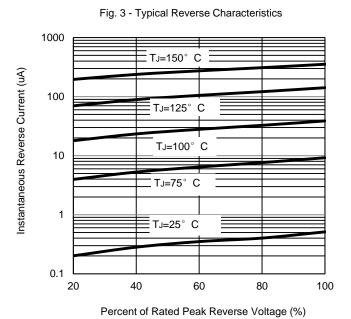
Notes: 1.Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.

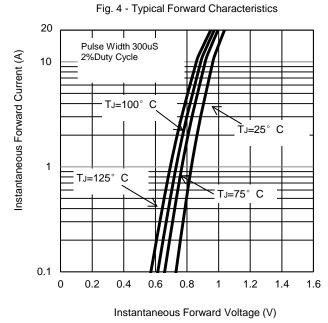
2. The typical data above is for reference only











The curve above is for reference only.



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