



KBPC35005GW THRU KBPC3516GW

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1600 Volts

Forward Current - 35 Amperes

Features

- Glass passivated chip
- Low forward voltage drop

Mechanical Data

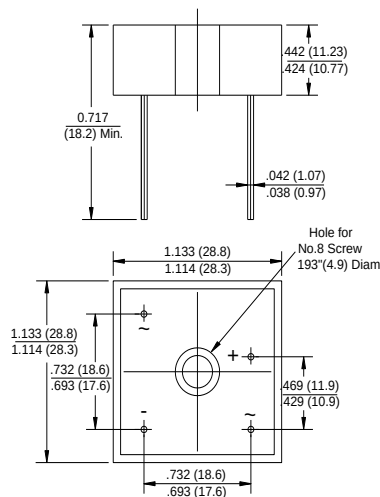
- Polarity: Symbol marked on body
- Mounting position: Any

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

Applications

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

KBPCGW



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	KBPC35005GW	KBPC3501GW	KBPC3502GW	KBPC3504GW	KBPC3506GW	KBPC3508GW	KBPC3510GW	KBPC3512GW	KBPC3514GW	KBPC3516GW	Unit
		KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	
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	l(AV)	35										A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	400										A
I²t Rating for Fusing (t<8.3mS)	I²t	664										A²s
Peak Forward Voltage per Diode at 17.5A DC	VF	1.1										V
Maximum DC Reverse Current at Rated @Tj=25 °C	IR	5										µA
DC Blocking Voltage per Diode @Tj=125 °C		500										
Typical Thermal Resistance to Ambient (Note1)	RθJA	5										°C/W
Typical Thermal Resistance to case (Note1)	RθJC	3.5										
Typical Thermal Resistance to lead (Note1)	RθJL	1										
Operating Junction Temperature Range	TJ	-55 to +150										°C
Storage Temperature Range	TSTG	-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



Fig. 1 - Forward Current Derating Curve

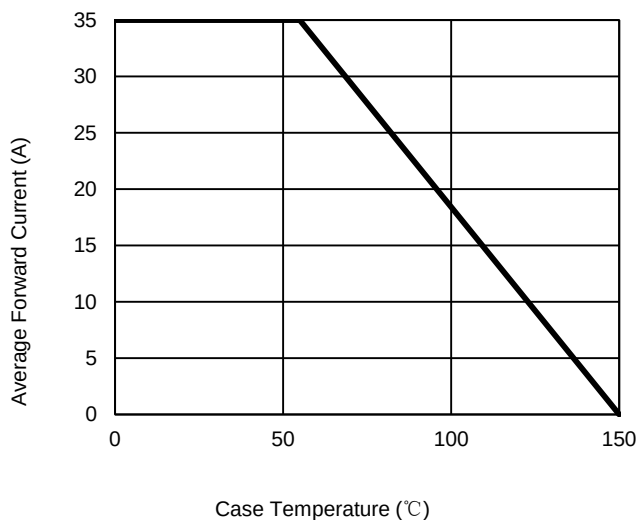


Fig. 2 - Maximum Non-Repetitive Surge Current

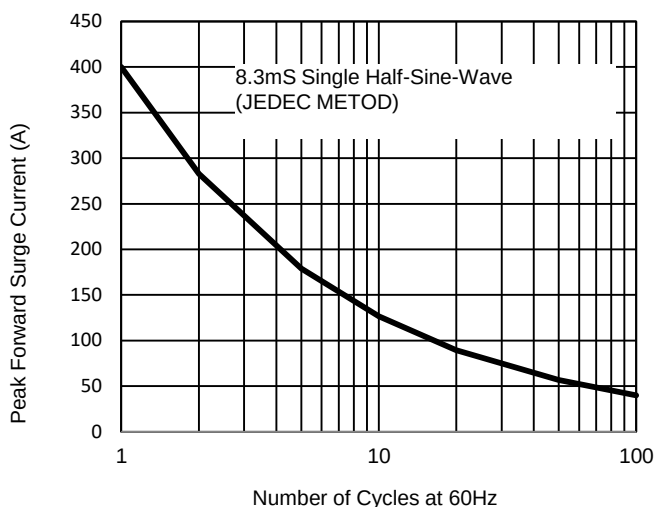


Fig. 3 - Typical Reverse Characteristics

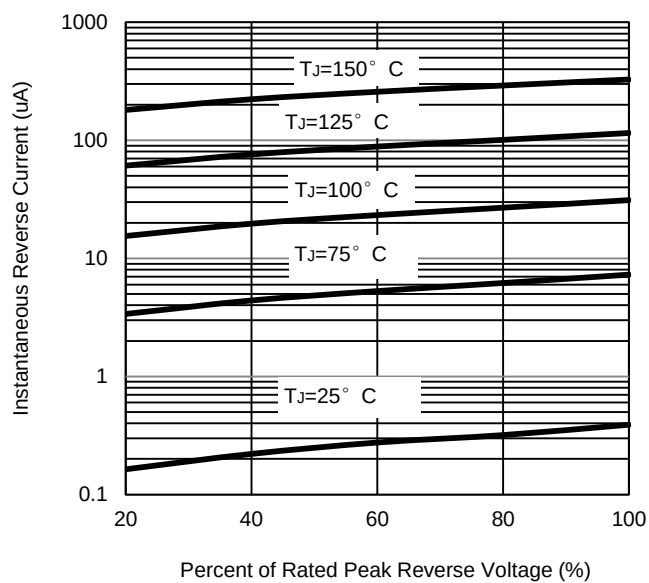
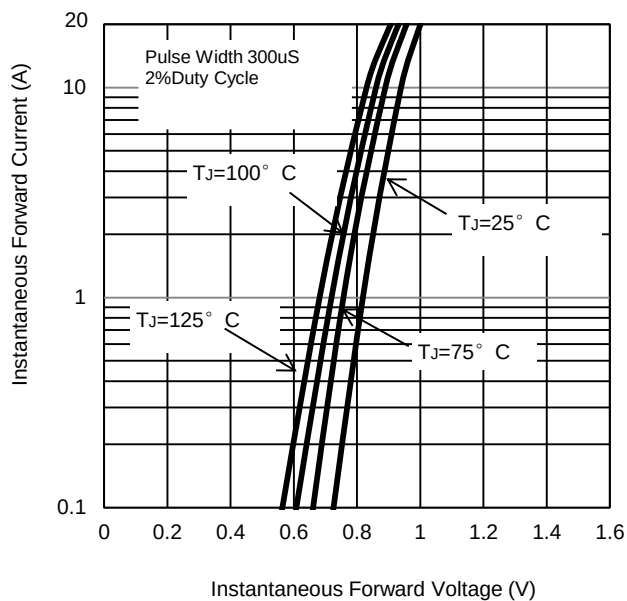


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.



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