

**Glass Passivated Bridge Rectifiers****Reverse Voltage - 50 to 1600 Volts****Forward Current - 35 Amperes****Features**

- Glass passivated chip
- Low forward voltage drop

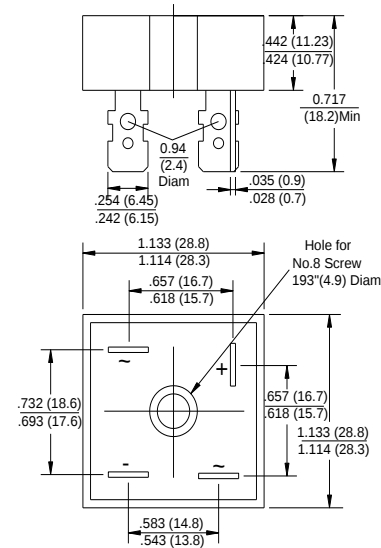
Mechanical Data

- 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 Bridge full wave rectification, for home appliances, office equipment, etc.

KBPCG**RoHS**
COMPLIANT

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	KBPC35005G	KBPC3501G	KBPC3502G	KBPC3504G	KBPC3506G	KBPC3508G	KBPC3510G	KBPC3512G	KBPC3514G	KBPC3516G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	840	980	1120	V
Maximum Average Forward Rectified Current @Tc=55 °C	I(AV)	35										A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	400										A
I ² t Rating for Fusing (t<8.3mS)	I ² t	664										A ² s
Peak Forward Voltage per Diode at 17.5A DC	V _F	1.1										V
Maximum DC Reverse Current at Rated @T _J =25 °C	I _R	5										μA
DC Blocking Voltage per Diode @T _J =125°C		500										
Typical Thermal Resistance to Ambient (Note1)	R _{θJA}	5										°C/W
Typical Thermal Resistance to case (Note1)	R _{θJC}	3.5										
Typical Thermal Resistance to lead (Note1)	R _{θJL}	1										
Operating Junction Temperature Range	T _J	-55 to +150										°C
Storage Temperature Range	T _{STG}	-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

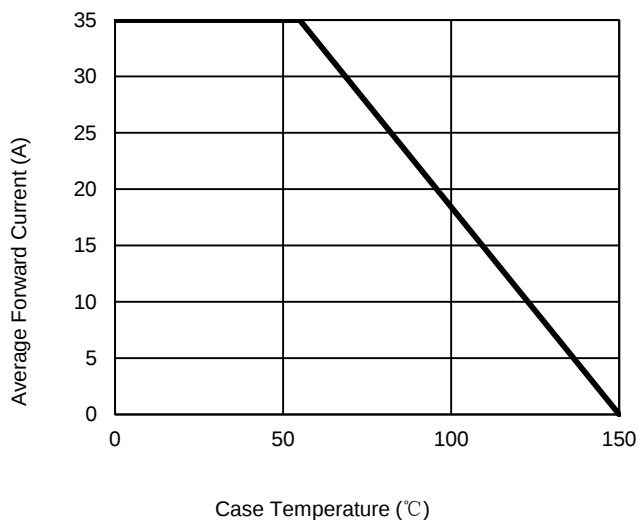


Fig. 2 - Maximum Non-Repetitive Surge Current

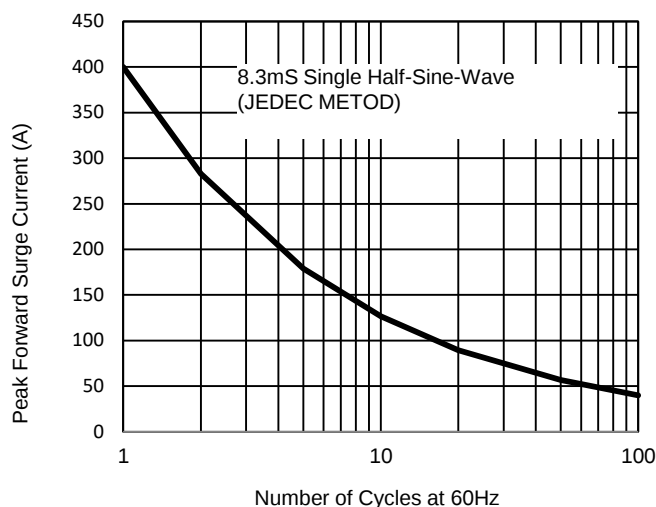


Fig. 3 - Typical Reverse Characteristics

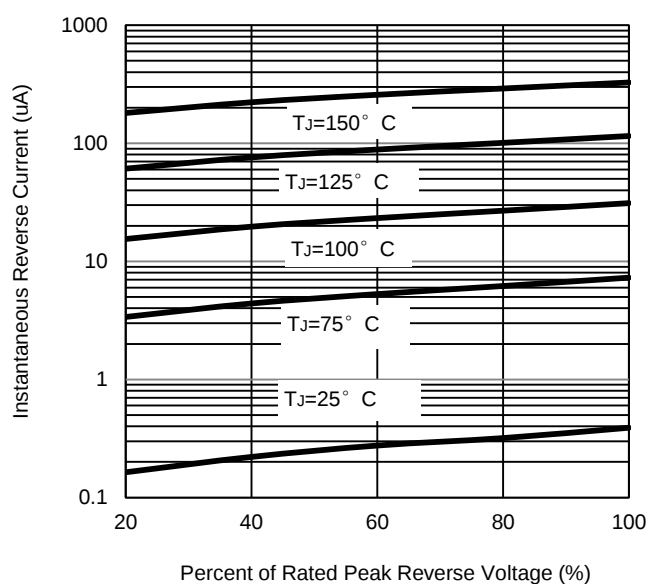
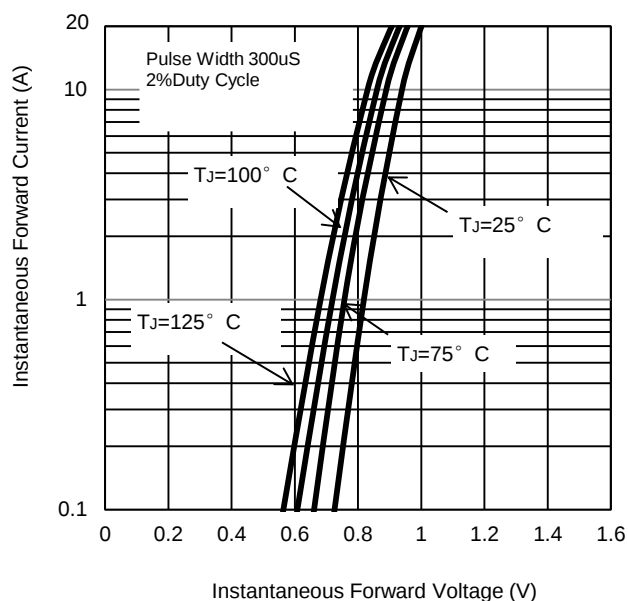


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.



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