COMON SEMICONDUCTOR

KBP307

Glass Passivated Bridge Rectifiers
玻璃钝化整流桥

Reverse Voltage - 1000 Volts
反向电压 1000V
Forward Current - 2.0 Amperes
正向电流 2.0A

Features特征

- Glass passivated chip玻璃钝化芯片
- Low forward voltage drop正向压降低
- Ideal for printed circuit board适用于印刷电路板中

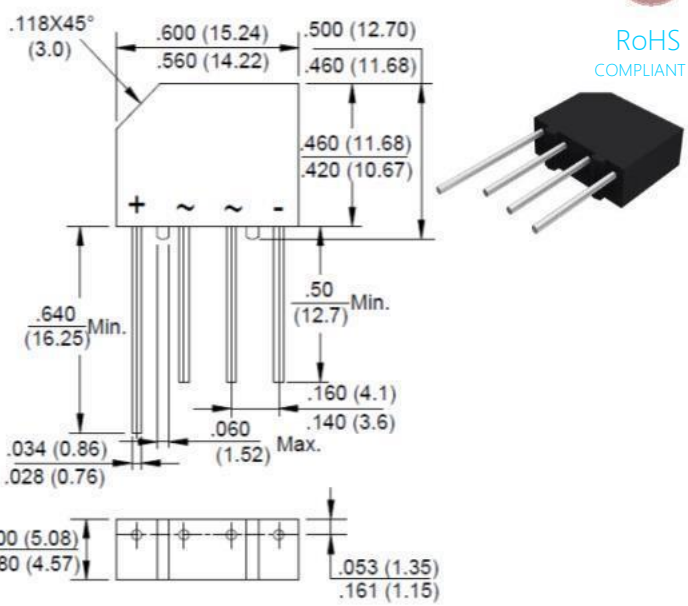
Mechanical Data外观信息

- Polarity: Symbol marked on body极性：标志在产品的本体上
- Mounting position: Any安装位置：任何位置

Applications应用

- General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.
  一般应用于交流/直流桥式全波整流，如：家用电器，办公设备等。

KBP



Package Outline Dimensions in Inches (Millimeters)
封装外观尺寸单位英寸（毫米）

Maximum Ratings and Electrical Characteristics最大额定值及电气特性

Rating at 25℃ ambient temperature unless otherwise specified.环境温度25℃，除非特别说明。
Single phase, half wave, 60Hz, resistive or inductive load.单相半波， 60Hz，阻性或感性负载。
For capacitive load, derate current by 20%.对于电容性负载，降低20%的额定电流。

Characteristics 特性	Symbol 符号	KBP307	Unit 单位
Maximum Repetitive Peak Reverse Voltage 最大重复峰值反向电压	V_{RRM}	1000	V
Maximum RMS Voltage最大有效反向电压	V_{RMS}	700	V
Maximum DC Blocking Voltage最大直流阻断电压	V_{DC}	1000	V
Maximum Average Forward Rectified Current @T_A=50℃ 最大正向平均整流电流	$I_{(AV)}$	2.0	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) 8.3mS单一正弦半波叠加在额定负载上的浪涌能力（JEDEC方法）	I_{FSM}	60	A
I^2t Rating for Fusing (t<8.3mS)熔断额定值（t<8.3mS)	I^2t	14.9	A^2s
Peak Forward Voltage per Diode at 2.0A DC 单个二极管在2.0A电流下的正向峰值电压	V_F	1.1	V
Maximum DC Reverse Current at Rated @T_J=25℃ DC Blocking Voltage per Diode @T_J=100℃ 单个二极管在额定直流电压下的最大反向直流电流	I_R	10 1.0	μA mA
Operating Junction Temperature Range结温工作范围	T_J	-55 to +150	℃
Storage Temperature Range储存温度范围	T_{STG}	-55 to +150	℃

Fig. 1 - Forward Current Derating Curve
图1正向电流降额曲线

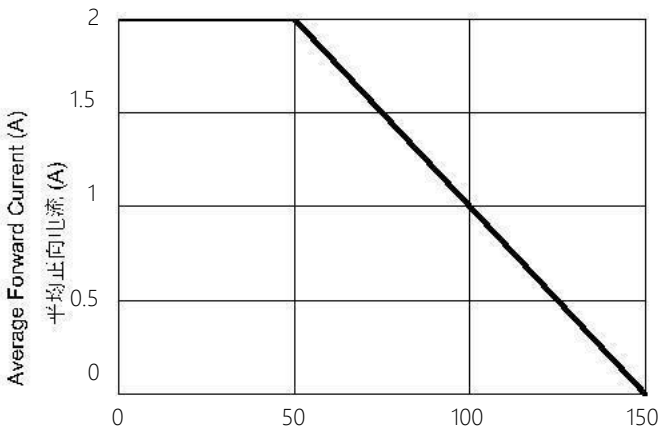


Fig. 2 - Maximum Non-Repetitive Surge Current
图2最大不重复正向浪涌曲线

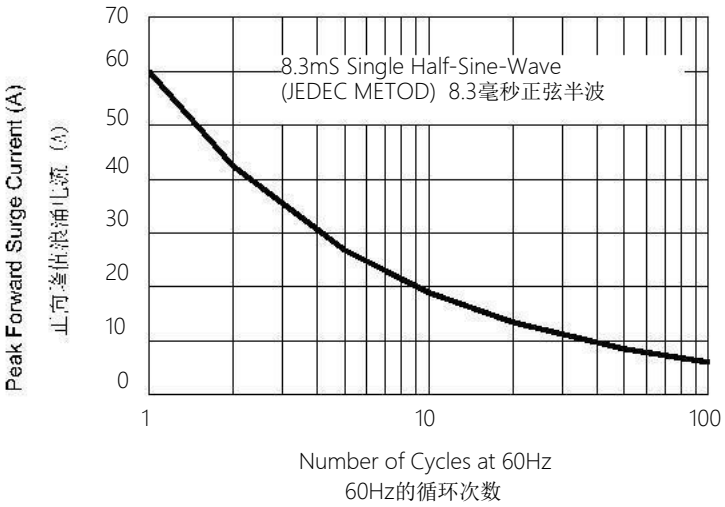


Fig. 3 - Typical Reverse Characteristics
图3典型的反向特性

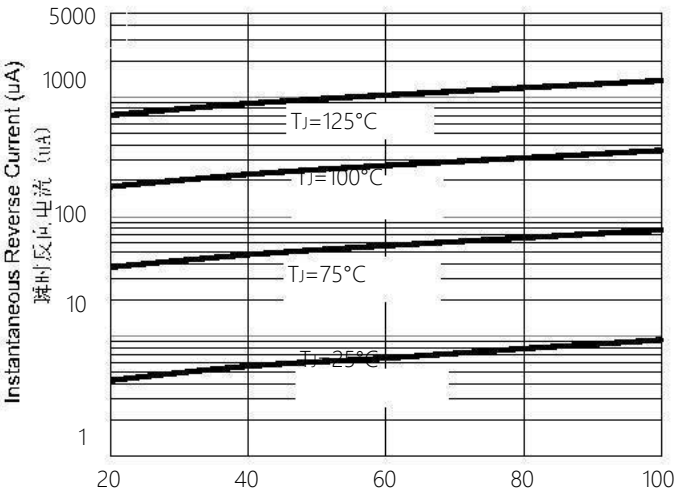
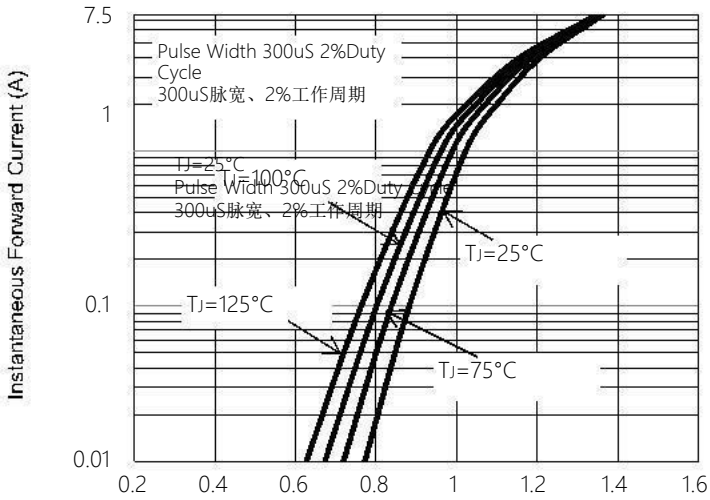


Fig. 4 - Typical Forward Characteristics
图4典型的正向特性



The curve above is for reference only.曲线图仅供参考。
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