ABS105 THRU ABS110

Surface Mount Glass Passivated Bridge Rectifiers
贴片式玻璃钝化整流桥

Reverse Voltage - 50 to 1000 Volts
反向电压 50-1000V
Forward Current - 1.0 Amperes
正向电流 1.0A

Features 特征

- Glass passivated chip 玻璃钝化芯片
- Ideal for automatic placement 适用于自动化贴放
- High surge forward current capability 耐正向浪涌电流能力高
- Reliable low cost construction utilizing molded plastic technique
  采用了低成本可靠的塑封技术
- Lead tin plated copper 铜引线镀锡

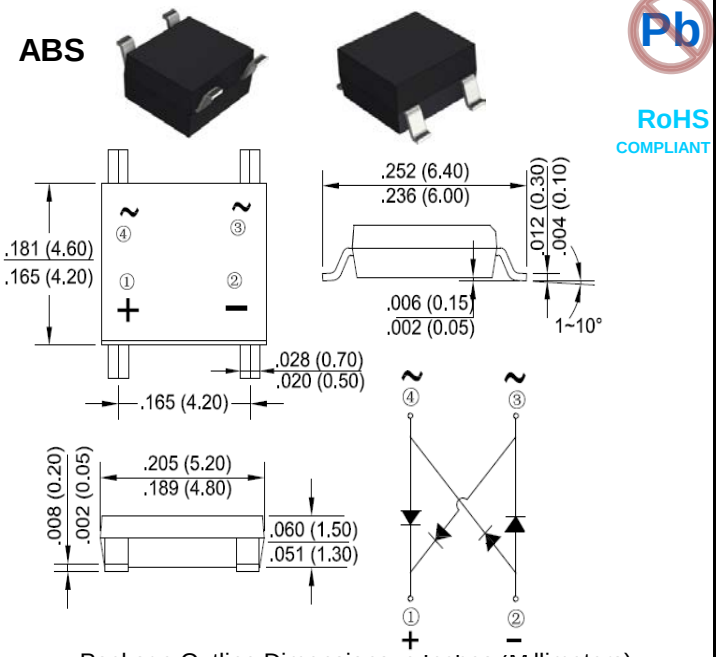
Mechanical Data 外观信息

- 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 SMPS, lighting ballaster, adapter, etc.
  一般应用于交流/直流桥式全波整流，如：开关电源，照明镇流器、适配器等。

ABS



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	ABS105	ABS11	ABS12	ABS14	ABS16	ABS18	ABS110	Unit 单位
Maximum Repetitive Peak Reverse Voltage 最大重复峰值反向电压	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage 最大有效反向电压	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage 最大直流阻断电压	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A=40 ℃(Note1) 最大正向平均整流电流（备注1）	$I_{(AV)}$	1.0							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}	30							A
I^2t Rating for Fusing (t<8.3mS) 熔断额定值 （t＜8.3mS)	I^2t	3.7							A^2s
Peak Forward Voltage per Diode at 1.0A DC 单个二极管在1.0A电流下的正向峰值电压	V_F	1.05							V
Maximum DC Reverse Current at Rated @T_J=25℃ DC Blocking Voltage per Diode @T_J=125℃ 单个二极管在额定直流电压下的最大反向直流电流	I_R	5 100							μA
Typical Thermal Resistance Junction to Ambient 结到环境的典型热阻值	$R_{\theta JA}$	80							℃/W
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							℃

Notes:1.Mounted on P.C. board. 安装在PC板上
2.The typical data above is for reference only . 典型值仅供参考。

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

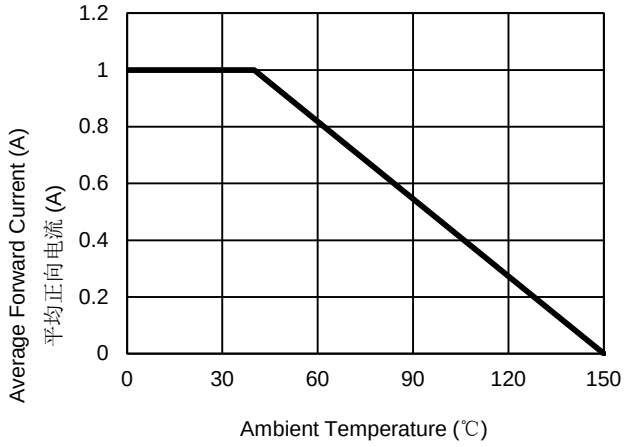


Fig. 2 - Maximum Non-Repetitive Surge Current
图2 最大不重复正向浪涌曲线

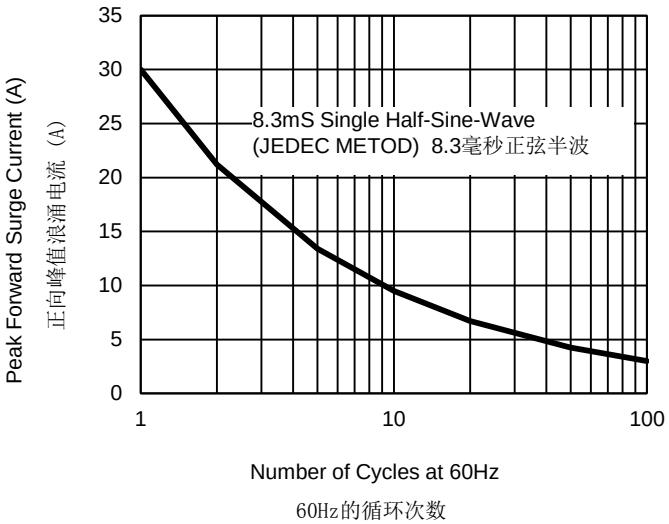


Fig. 3 - Typical Reverse Characteristics
图3 典型的反向特性

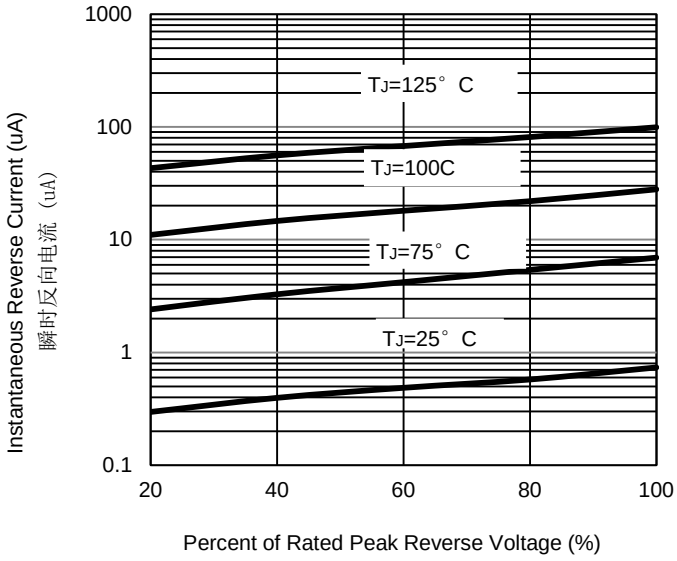
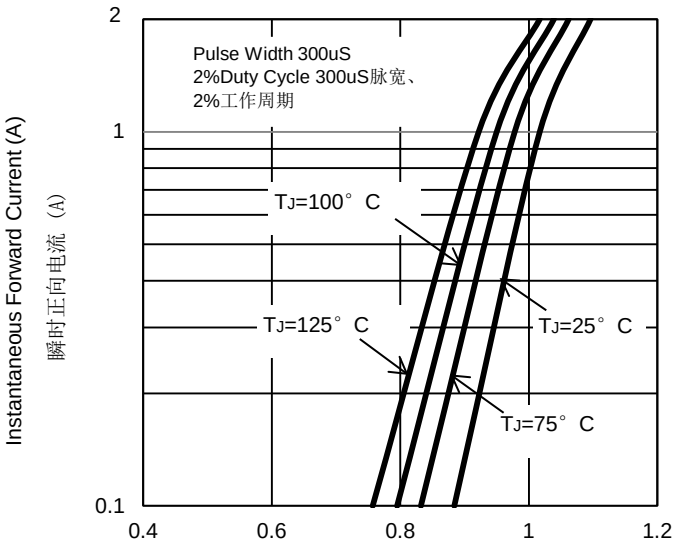


Fig. 4 - Typical Forward Characteristics
图4 典型的正向特性



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

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