

Silicon Bridge Rectifiers 硅桥式整流桥

Reverse Voltage - 50 to 1000 Volts
反向电压 50-1000V
Forward Current - 15 Amperes
正向电流 15A

Features 特征

- Low forward voltage drop 正向压降低
- Electrically isolated base -2000 Volts 绝缘耐压最低2000V
- High surge forward current capability 耐正向浪涌电流能力高
- Materials used carries U/L recognition 材料符合UL认证

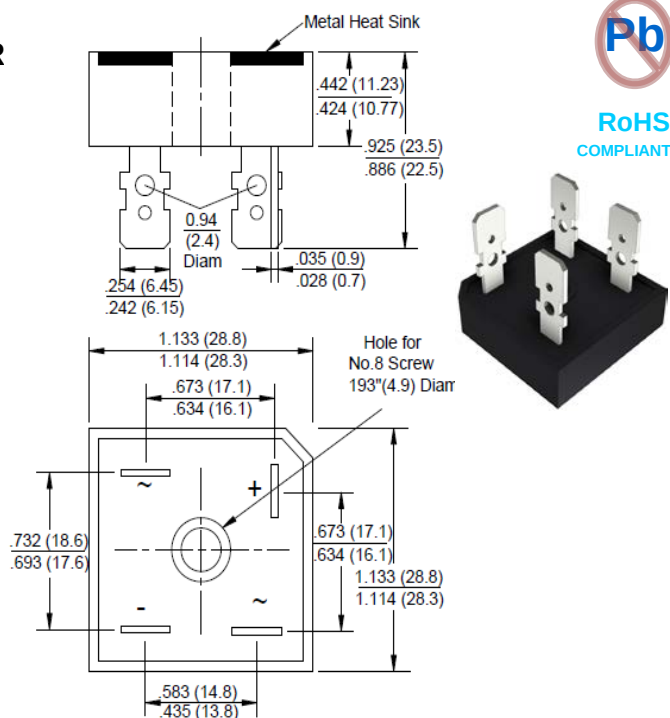
Mechanical Data 外观信息

- 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 power supply, industrial automation applications, etc.
一般应用于交流/直流桥式全波整流, 如: 电源供应器, 工业自动化应用等。

BR



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°C ambient temperature unless otherwise specified. 环境温度25°C, 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	BR 15005	BR 1501	BR 1502	BR 1504	BR 1506	BR 1508	BR 1510	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 Average Forward Rectified Current @T _c =55 °C 最大正向平均整流电流	I _{AV}	15							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}	300							A
I ² t Rating for Fusing (t<8.3mS) 熔断额定值 (t<8.3mS)	I ² t	373.5							A ² s
Peak Forward Voltage per Diode at 7.5A DC 单个二极管在7.5A电流下的正向峰值电压	V _F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Diode @T _J =25°C 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							μA
Operating Junction Temperature Range 结温工作范围	T _J	-55 to +150							°C
Storage Temperature Range 储存温度范围	T _{STG}	-55 to +150							°C

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

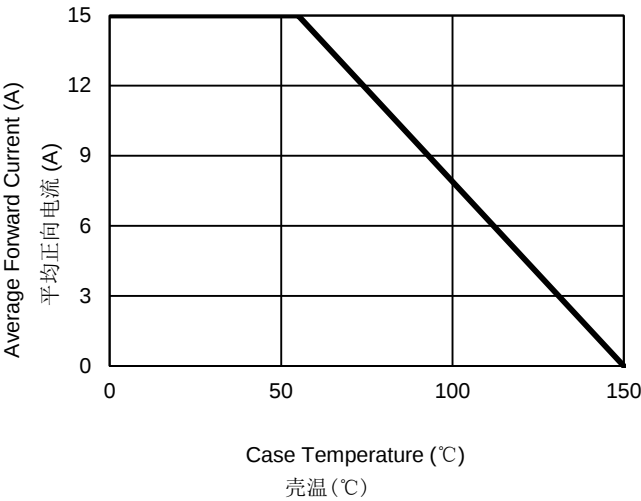


Fig. 2 - Maximum Non-Repetitive Surge Current
图2 最大不重复正向浪涌曲线

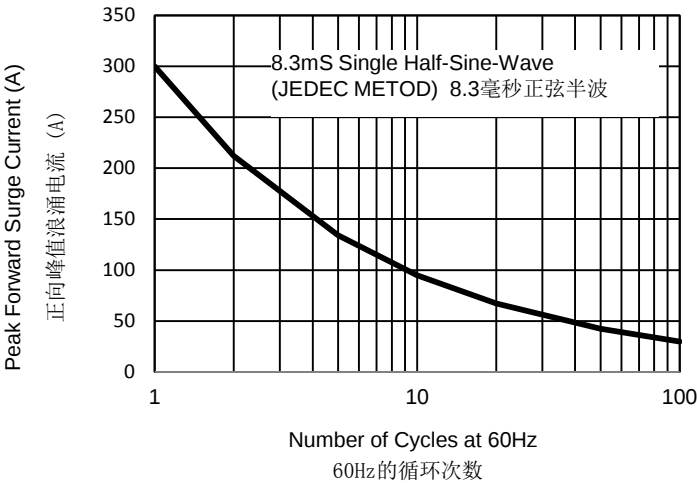


Fig. 3 - Typical Reverse Characteristics
图3 典型的反向特性

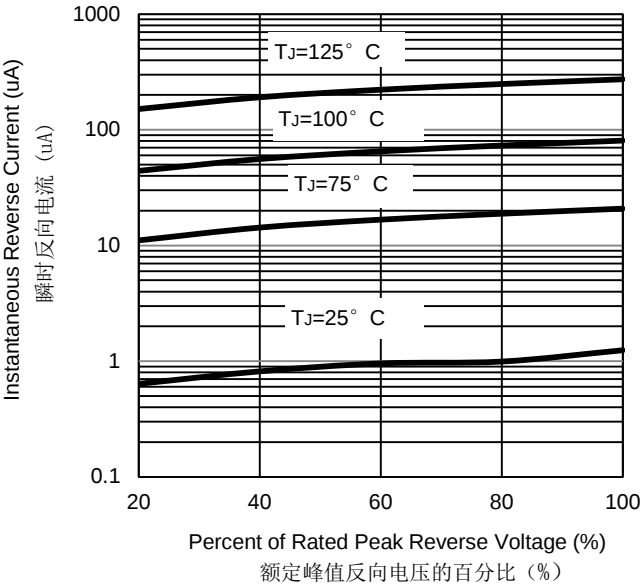
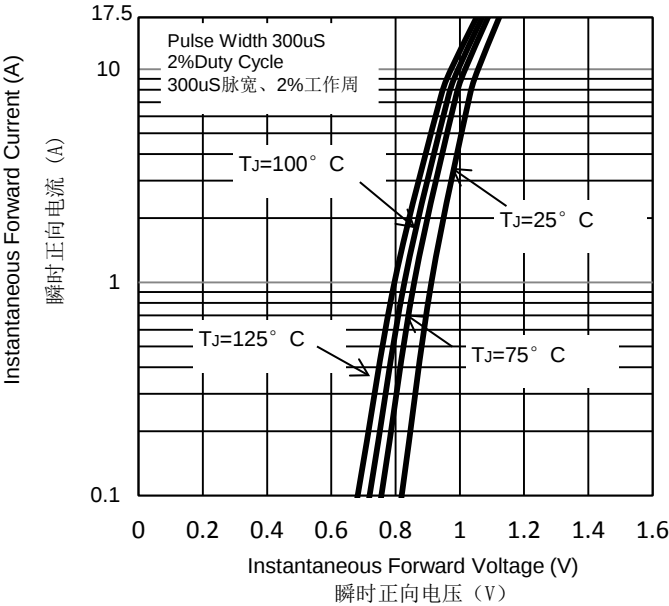


Fig. 4 - Typical Forward Characteristics
图4 典型的正向特性



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



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