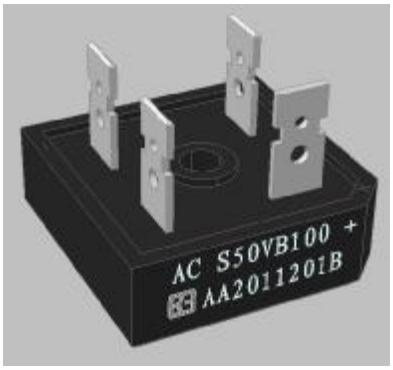
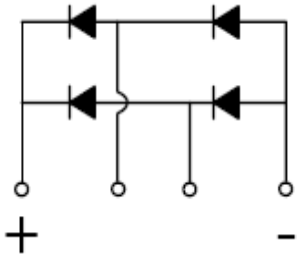
S50VB100
单相桥式整流器规格书



外形图 Outside View



线路图 Circuit

特 点
FEATURES

合并塑封的散热片，热阻抗低，散热量大
Integrally molded heatsink provide very low thermal resistance for maximum heat dissipation

浪涌过载额定值达 500 安培
Surge overload ratings to 500 Amperes

玻钝芯片结
Glass passivated chip junctions

高温焊接保证：260℃$^{+5℃}$/10 秒，拉力 2.3Kg.F
High temperature soldering guaranteed: 260℃$^{+5℃}$/10 seconds, (2.3kg.F)tension

机械数据
MECHANICAL DATA

外壳：塑料与散热片一起封在桥壳内
Case: Molded plastic with heatsink integrally mounted in the bridge encapsulation

端子：镀镍 0.25＂（6.35mm）接线端子
Terminals:Nickelplaed 0.25＂（6.35mm）Faston lugs

安装：用 M5 螺丝固定在散热片上，桥和安装表面之间填充硅热混合物以达到最佳的散热效果
Mounting Position:Fixing the bridge rectifier with M5screw to the heat sink.Coat silicon thermal compound between Al surface of the bridge,which will be contacted with the heat sink for maximizing heat transfer.

极性：极性符号铸在管体上
Polarity: polarity symbols being molded on body

重量：**19.3±0.5** 克
Weight: **19.3±0.5**grams

最大额定值
Absolute Max Rating

项目 Item	符号 Symbol	条件 Conditions	额定值 Ratings	单位 Unit
储存温度 Storage temperature	Tstg		--50～150	℃
结温 Operating junction Temperature	T_J		150	℃
最大反向电压 Max Reverse Voltage	V_{RM}		1000	V
平均正向整流电流 Average Rectified Forward Gurrent	I_{FAV}	50HZ 正弦波电阻负载 50HZ Sine wave resistance load Tc=85℃	50	A
浪涌电流 Peak Surge Forward Current	I_{FSM}	不重复 50HZ 10ms 正弦波 Non-repetitive 50Hz 10ms Sine wave Tj=25℃	500	A
绝缘强度 Dielectric Strength	V_{ida}	T 端子与管壳间 AC1 分钟 erminals to case AC 1 minute	2.0	KV
扭矩 Mounting torque	Tor	建议扭矩 0.5N・M Recommended torque0.5N・M	0.8	N・M

电性特征
Electrical Characteristics T_A=25℃：

正向电压 Forward Voltage	V_F	I_F=25A	Max 1.1	V
反向漏电流 Reverse Current	I_R	V_R =V_{RM}	Max 5	uA
热　阻 Thermal Reslstance	Q_{JC}	结点管壳间 Junction to Case	Max 1.0	℃/W

特性曲线

Rating and Characteristic

FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

电流降额曲线

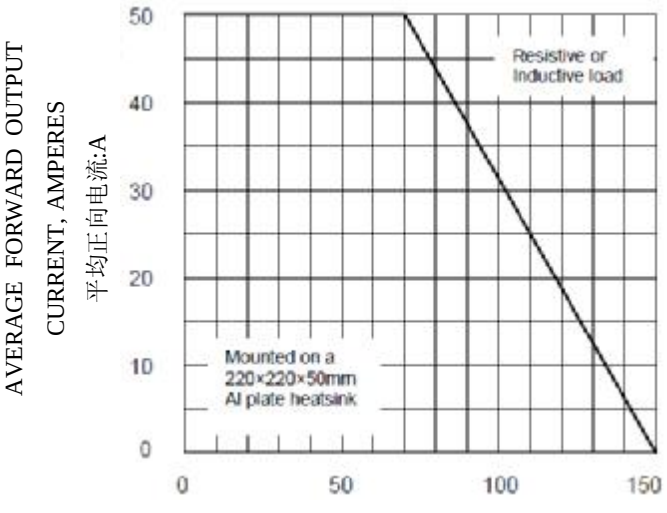


FIG.2 MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

最大正向不重复峰浪涌电流

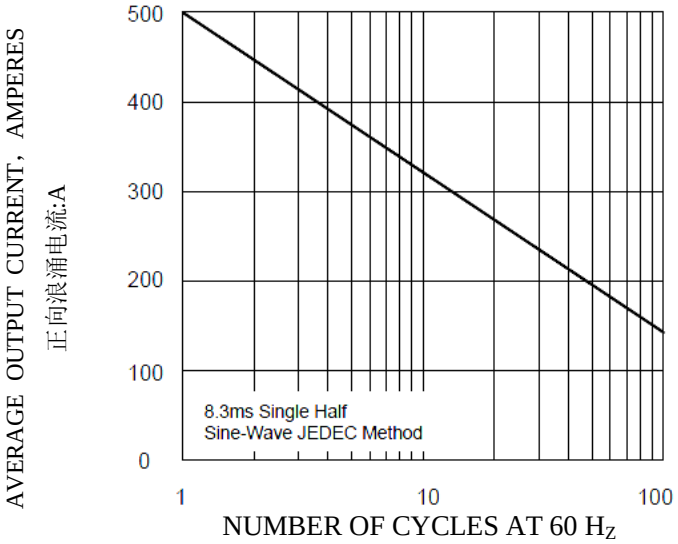


FIG.3 TYPECAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

典型反向特性

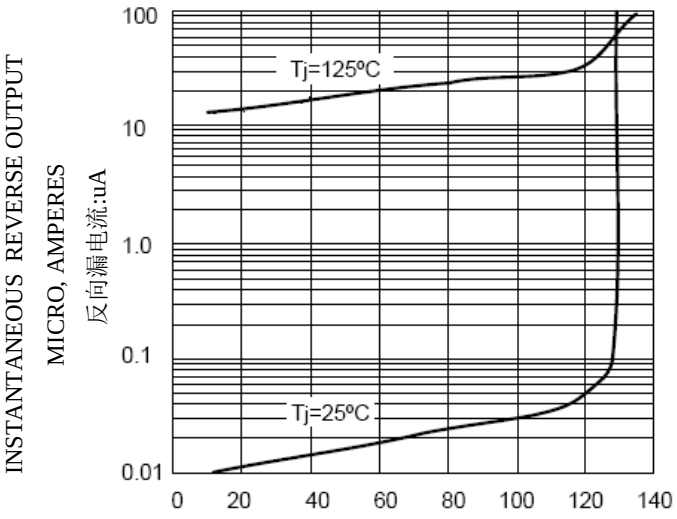
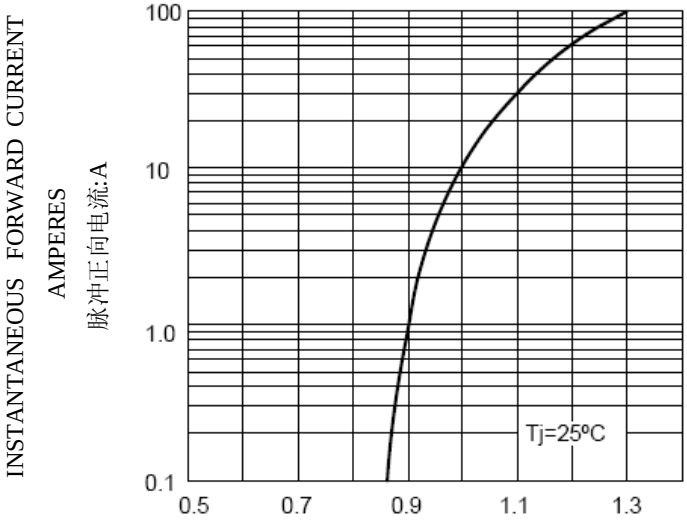


FIG.4 TYPECAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

典型正向特性



外形及尺寸图
Outside Dimension