BRIDGE RECTIFIER | 桥式整流器

FEATURES

1. Integrally molded heatsink provide very low thermal resistance for maximizing heat dissipation
2. Surge overload ratings to 310 Amperes
3. Glass passivated chip junctions
4. High temperature soldering guaranteed: 260℃/10 seconds, (2.3kg.F) tension

MECHANICAL DATA

1. Case: Molded plastic with heatsink integrally mounted in the bridge encapsulation
2. Terminals: Nickel plated 0.25" (6.35mm) Faston lugs
3. Mounting Position: Fixing the bridge rectifier with M5 screw to the heat sink Coat silicon thermal compound between backside of the bridge, which will becontacted with the heat sink for maximizing heat transfer.
4. Polarity: Polarity symbols being marked on body

特性

1. 合并塑封的散热片，热阻抗低，散热量大
2. 浪涌过载额定值达310A
3. GPP玻璃钝化芯片结
4. 高温焊接保证：260℃/10秒，拉力2.3Kg.F

机械数据

1. 外形：塑封料与散热片一起封装
2. 端子：镀镍0.25″(6.35mm)接线端子
3. 安装位置：用M5螺丝固定在散热片上，桥式整流器和安装表面之间填充硅热混合物以达到最佳的散热效果
4. 极性：极性符号标记在外壳上

Ordering Information Table

Device Code: HE ① | BR ② | 35 ③ | 12 ④

1 - HE= High Energy Type ; HE=高能量型

2 - BR= Bridge Rectifier ; BR=桥式整流器

3 - $I_{F(AV)}$ Value : 平均电流值

4 - V_{RRM} Value=codex100 ; 反向电压值=标示值X100

Absolute Max Rating 最大额定值

	Item测试内容	Conditions测试环境	Ratings 测试值			Unit
Type			HEBR25XX	HEBR35XX	HEBR50XX	
Tstg	Storage temperature 储存温度		+50～+150			℃
T_J	Operating junction temperature 结温		+ 150			℃
V_{RRM}	Max reverse voltage 反向电压		600-1600			V
I_{FAV}	Average forward current 平均电流	50Hz Sine wave resistance load Tc=85℃	25	35	50	A
I_{FSM}	peak surge forward current 浪涌电流	Non-repetitive 50Hz 10ms Sine wave Tj=25℃	310	400	450	A
V_{ISO}	Insulation voltage 绝缘电压	Terminals to case AC 1 minute	2.5			KV
T_{OR}	Mounting torque 安装扭力	Recommended torque0.5N.M	0.8			N.M
Wt(g)	grams 重量		24	25	26	g

Electrical Characteristics T_A=25℃ 电特性

V_F	Forward Voltage drop压降	IF=1/2 I_{FAV}	1.15	1.1	1.1	V
I_R	Reverse current漏电流	VR=VRM	5	5	5	uA
R_{JC}	Thermal resistance	Junction to case	1.45	1.4	1.35	℃/W

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Rating and Characteristic 特性曲线

FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT
电流降额曲线

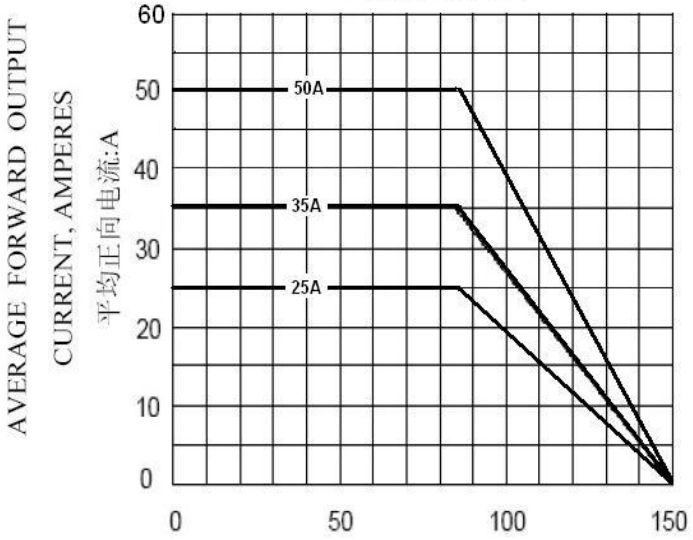


FIG.2 MAXIMUM NON－REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT
最大正向不重复峰浪涌电流

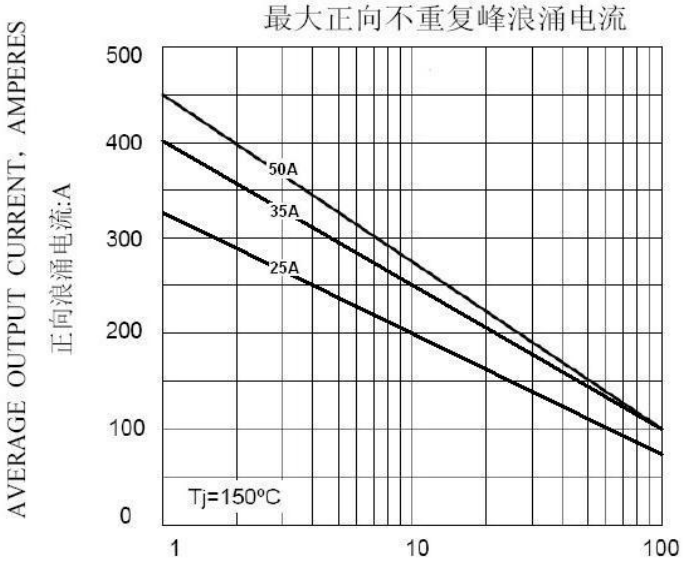


FIG.3 TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT
典型反向特性

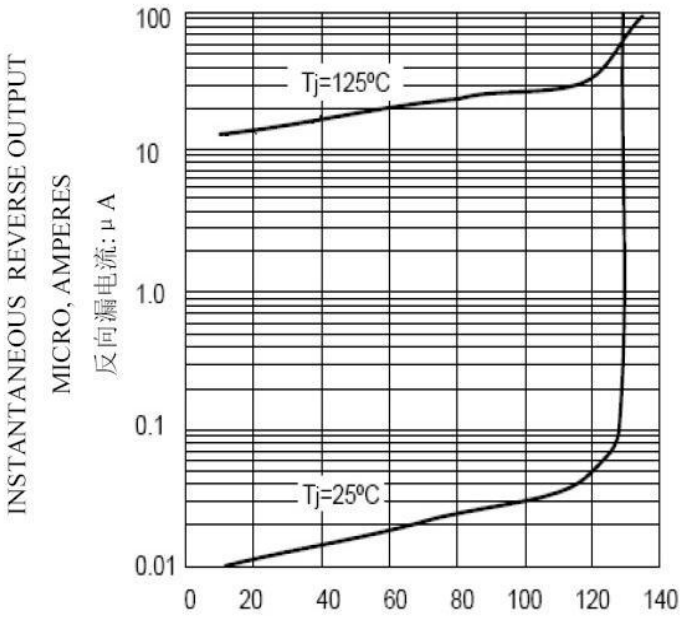
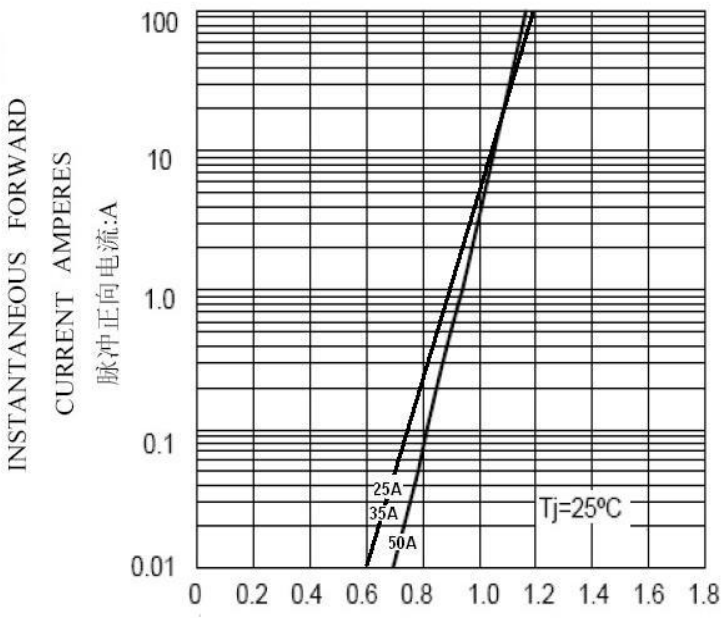


FIG.4 TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT
典型正向特性



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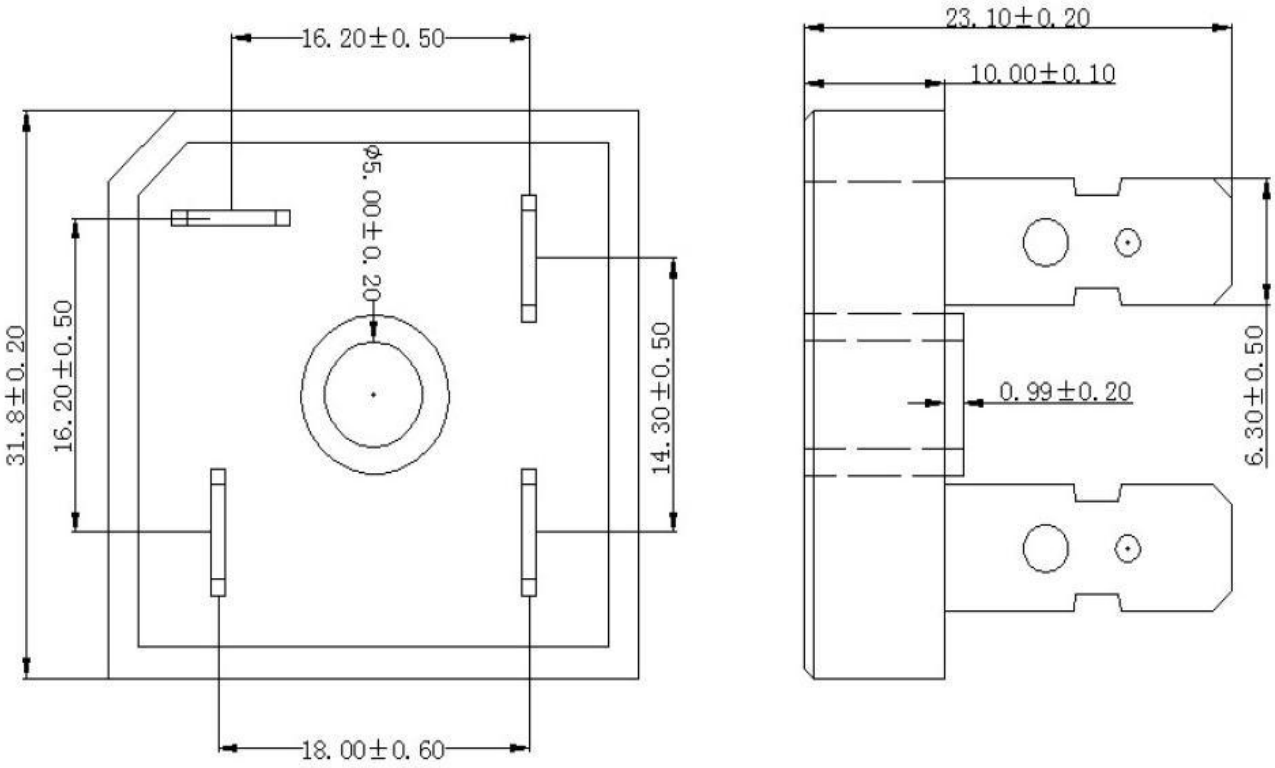
Outline table(Dimension in mm)　**外形尺寸**(mm)



circuit type(for install)　**电路图**(接线方式)