

产品规格书

DATA SHEET

客户名称 : _____

产品名称 : 单相整流桥 _____

产品型号 : GBU10** _____

产品描述 : 玻璃钝化芯片整流桥
10A (600V-1000V) _____

物料编码 : 无 _____

制作人	审核	核准

客户确认 Customer Signature

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10A 单相整流桥

特征 Features

玻璃钝化芯片

Glass passivated chip

低反向漏电流

Low Reverse Leakage Current

高耐浪涌电流能力达200安培

High surge current capability to 200 Amperes

塑封料已经UL可燃性认证94V-0, UL档案编号: E249161

Plastic material has Underwriters Laboratory flammability recognition 94V-0, Recognized File # E249161

符合ROHS要求, 其中铅被欧盟ROHS指令2011/65/EU豁免

ROHS compliance, where Plumbum is exempted by EU ROHS directive 2011/65/EU

高温焊接保证: 260°C±5°C/10秒, 拉力2.3 Kgf.cm

High temperature soldering guaranteed: 260°C±5°C/10 seconds (2.3 Kgf.cm)tension



机械参数 Mechanical Data

本体: 塑封

Case: Molded plastic case

极性: 极性符号铸在管体上

Polarity: Polarity symbols being marked on body

重量: 约4.0克

Weight: About 4.0 grams

最大额定值 Maximum Ratings Parameter @ Ta = 25°C unless otherwise noted							
名词解释 Noun interpretation	参数条件 Conditions		符号 Symbol	06	08	10	单位 Unit
				J	K	M	
反向重复峰值电压 Maximum Recurrent Peak Reverse Voltage			V _{RRM}	600	800	1000	V
反向不重复峰值电压 Reverse non-repetitive peak voltage			V _{RSM}	700	900	1100	V
平均整流输出电流 Average Rectified Output Current	50Hz 正弦波负载, 50Hz sine wave load	带散热片,TC=100°C with heatsink, TC=100°C	I _(AV)	10			A
最大正向浪涌电流 Peak Surge Forward Current	50HZ 正弦波,一个周期, Tj=25°C 50HZ sine wave,1 cycle, Tj=25°C		I _{FSM}	200			A
热容值 Rating for fusing	1ms<t<8.3ms,Tj=25°C, 单个二极管 1ms<t<8.3ms,Tj=25°C, Rating of per diode		I ² t	166			A ² s
结温 Junction temperature			T _J	-55 ~ +150			°C
存储温度 Storage Temperature			T _{STG}	-55 ~ +150			°C
绝缘耐压 Dielectric Strength	端子与外壳之间外加交流电 1 分钟 Terminals to case AC 1 minute		V _{ids}	2.5			KV
安装扭矩 Mounting torque	推荐扭矩 : 5kgf·cm recommend torque : 5kgf·cm		Tor	8.0			Kgf·cm
电性特性 Electrical Characteristics (Ta=25°C Unless otherwise specified)							
正向峰值电压 Peak Forward Voltage	IF=5A, 脉冲测试, 单个二极管的额定值 IF=5A,Pulse measurement, Rate of per diode	Ta=25°C	V _F	1.0			V
反向峰值电流 Peak Reverse Current	VR=VRRM, 脉冲测试, 单个二极管的额定值 VR=VRRM, Pulse measurement Rating of per diode	Tj=25°C	I _R	5			μA
		Tj=125°C		500			
热阻 Thermal resistance	结到环境的热阻,无散热片 Junction to ambient, without heatsink		R _{θJA}	22			°C/W
	结到管壳的热阻,有散热片 Junction to case, with heatsink		R _{θJC}	3.5 ⁽¹⁾			
备注 : 1、安装在 100mm×100mm×1.6mm 热阻测试仪散热器的装置 Device mounted on 100mm x 100mm x 1.6mm Heat resistance meter radiator							

10A 特性曲线

FIG.1 . Derating Curve For Output Rectified Current

图 1. 电流降额曲线

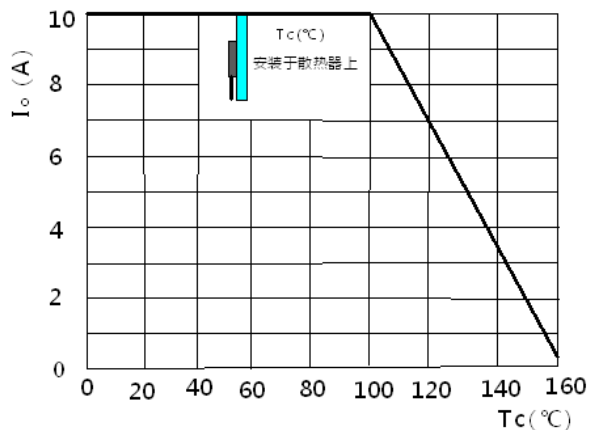


FIG.2 . Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

图 2. 最大正向不重复峰值浪涌电流

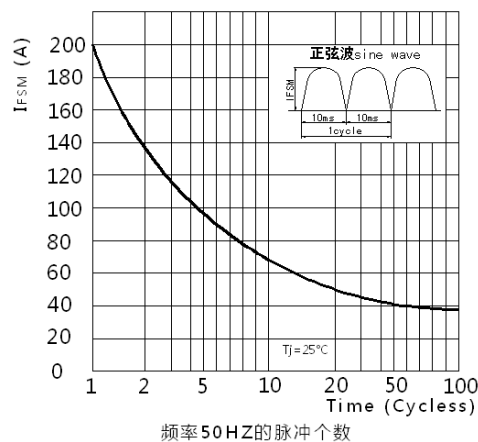


FIG3. Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

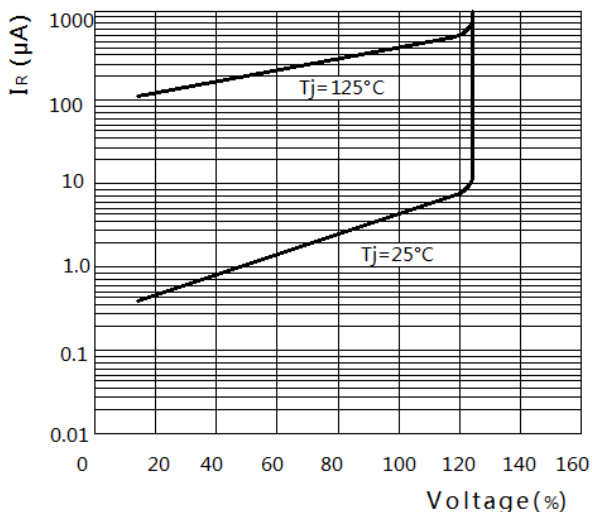
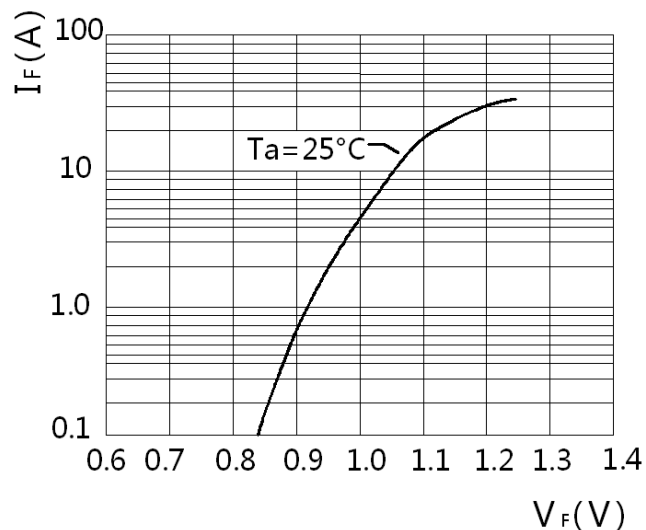
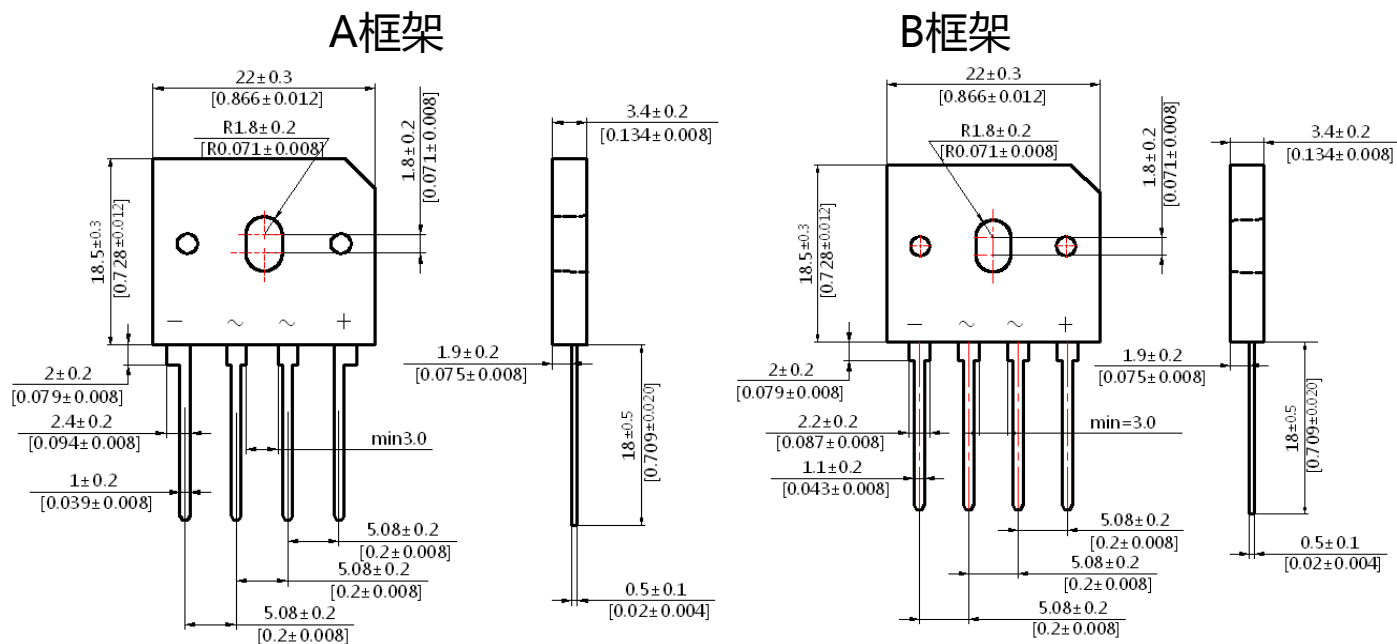


FIG4. Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性



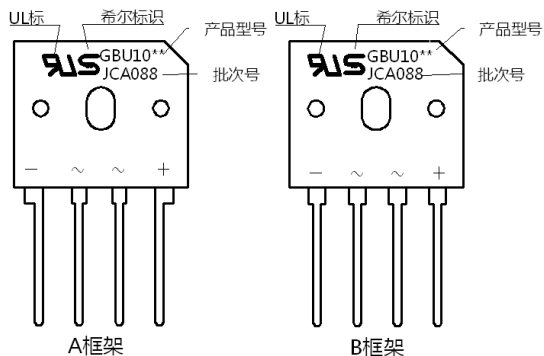
尺寸图 Dimensioned drawing



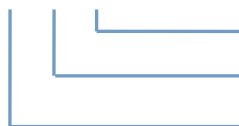
Dimensions in millimeters and inches

标记图

Marking Diagram



注： GBU 10 **



**表示反向峰值电压，核算公式= 数值*100

10 表示电流10A

GBU 表示封装代码

外形图

Outside view

