产品规格书

DATA SHEET

客户名称：

产品名称： **单相整流桥**

产品型号： **GBU30**整流桥**

产品描述： **玻璃钝化芯片整流桥**

30A（600V-1200V）

物料编码：

制作 Prepared by	审核 Audit by	批准 Approved by

客户确认 Customer Signature

30A 单相整流桥
30A Glass Passivated Single-Phase Bridge Rectifier

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400安培
High surge current capability to 400 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
ROHS compliance

高温焊接保证：260℃±5℃/10秒，拉力2.3 Kgf.cm
High temperature soldering guaranteed: 260℃±5℃/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 and Thermal Characteristics @ Ta = 25℃ unless otherwise noted

名词解释 Noun interpretation	参数条件 Conditions		符号 Symbol	额定值 Rated value				单位 Unit
				06 J	08 K	10 M	12 P	
反向重复峰值电压 Maximum Recurrent Peak Reverse Voltage			VRRM	600	800	1000	1200	V
反向不重复峰值电压 Reverse non-repetitive Peak Voltage			VRSM	700	900	1100	1300	V
最大直流电压 Maximum DC Blocking Voltage			VDC	600	800	1000	1200	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℃ With heatsink，TC=100℃	I(AV)	30				A
最大正向浪涌电流 Peak Surge Forward Current	50HZ 正弦波,一个周期，Tj=25℃ 50HZ sine wave,1 cycle，Tj=25℃		IFSM	400				A
热容值 Rating for fusing	1ms<t<8.3ms,Tj=25℃，单个二极管 1ms<t<8.3ms,Tj=25℃，Rating of per diode		i^2t	664				A^2s
结温 Junction Temperature			Tj	-55～+150				℃
存储温度 Storage Temperature			Tstg	-55～+150				℃
绝缘耐压 Dielectric Strength	端子与外壳之间外加交流电, 1 分钟 Terminal to case, 1 minute		Vdis	2.5				KV
安装扭矩 Mounting Torque	推荐扭矩 Recommend torque		Tor	5				Kg.cm

电气特性 Electrical Characteristics @ Ta = 25℃ unless otherwise noted

正向峰值电压 Peak Forward Voltage	IF=15A，脉冲测试，单个二极管的额定值 IF=15A,Pulse measurement,Rate of per diode	Ta=25℃	VF	1.1	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℃	IR	5	uA
		Tj=125℃		500	
热阻 Thermal resistance	结到环境的热阻,无散热片 Junction to ambient，without heatsink		RθJ-A	22	℃/W
	结到管壳的热阻,有散热片 Junction to case，with heatsink		RθJ-C	1.8	

备注： 1、产品安装在 100mm*宽 50mm*厚 30mm 铝板散热器上的装置

Device mounted on 100mm* 50mm* 30mm AI plate heatsink

特性曲线 Rating Characteristic

FIG.1 . Derating Curve For Output Rectified Current

图 1. 电流降额曲线

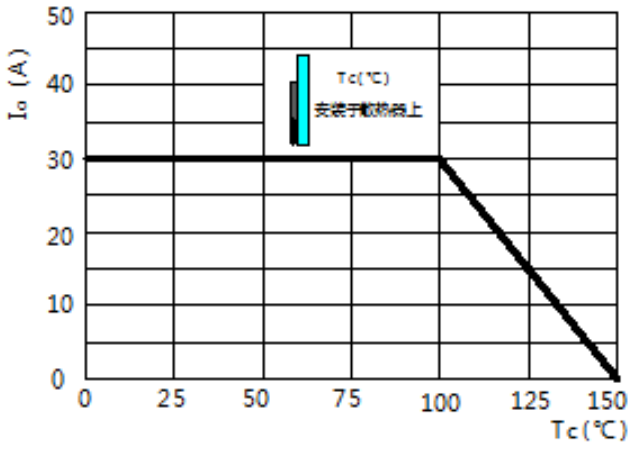


FIG.2 . Maximum Non-Repetitive Peak Orward Surge Current Per Bridge Element

图 2. 最大正向不重复峰值浪涌电流

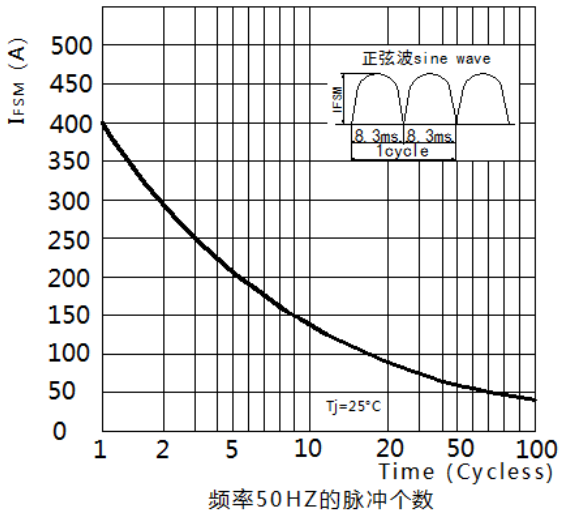


FIG3.Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

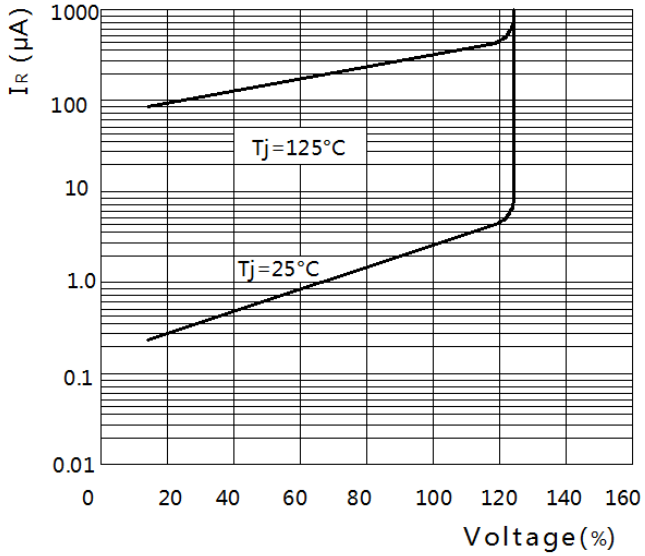
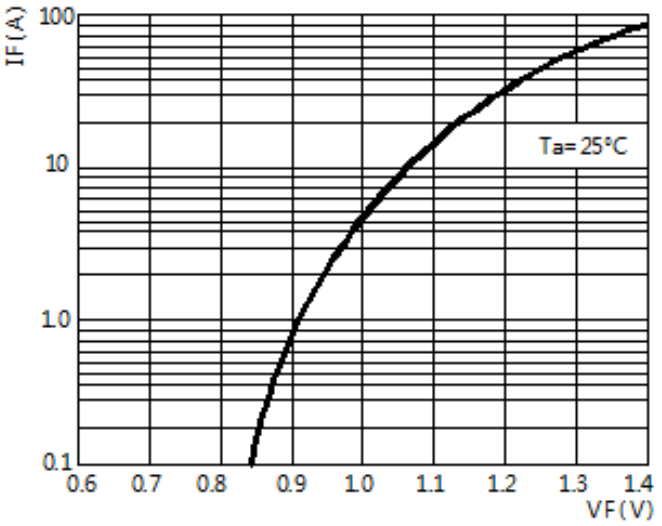
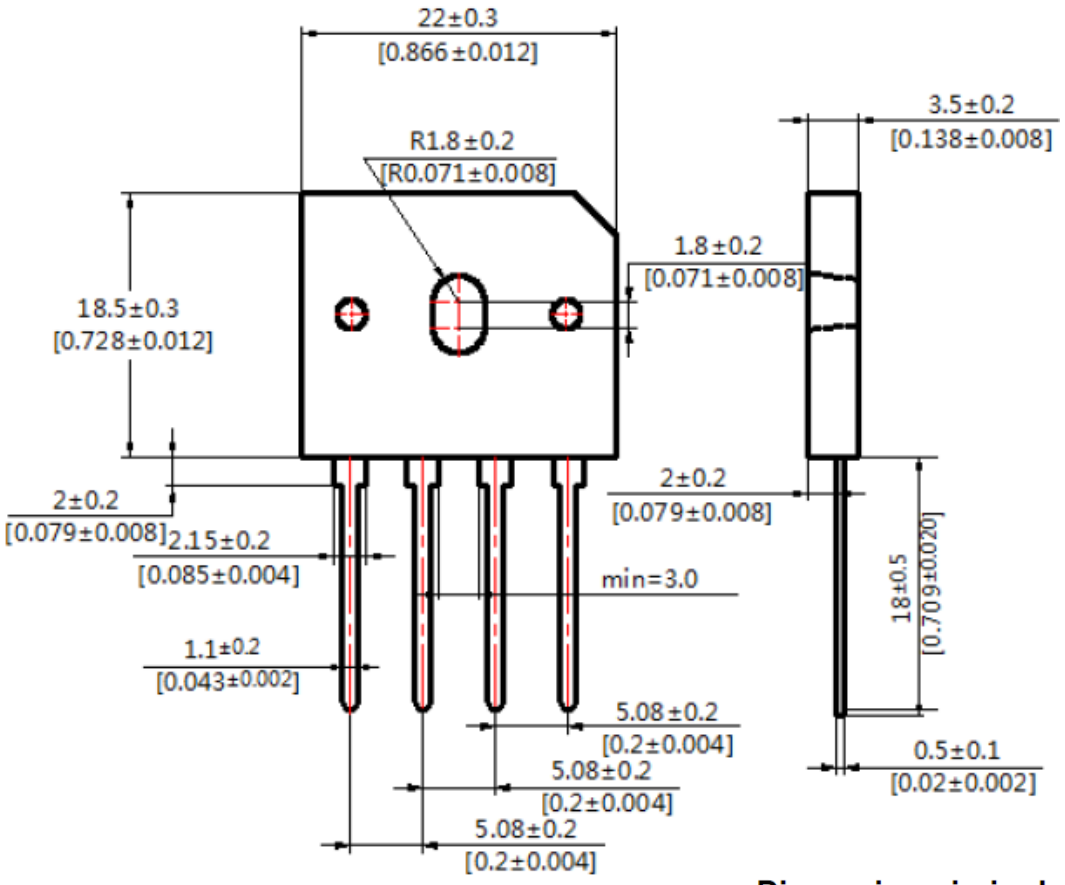


FIG4.Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性

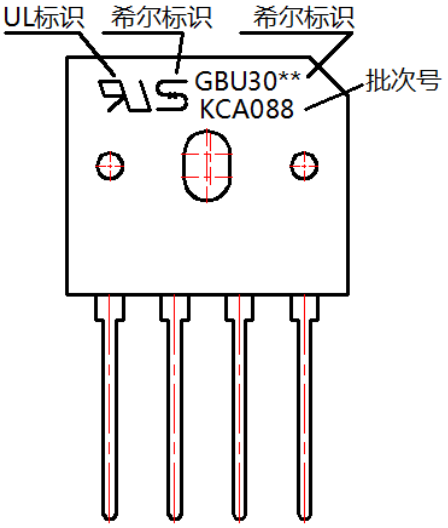


尺寸图
Dimensioned drawing



Dimensions in inches (mm)

外形图
Outside view



注：GBU表示封装代码，30表示电流30A，**为反向峰值电压, 核算公式=数值*100