

# 产品规格书

## DATA SHEET

客户名称 : \_\_\_\_\_

产品名称 : 单相整流桥 \_\_\_\_\_

产品型号 : D20SB\*\* \_\_\_\_\_

产品描述 : 玻璃钝化芯片  
20A ( 600V-1200V ) \_\_\_\_\_

物料编码 : 无 \_\_\_\_\_

制作人	审核	核准

客户确认 Customer Signature

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## 20A 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300安培

High surge current capability to 300 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6.8克

Weight : About 6.8grams

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	60	80	100	120	单位 Unit
反向重复峰值电压 Maximum Recurrent Peak Reverse Voltage			V <sub>RRM</sub>	600	800	1000	1200	V
反向不重复峰值电压 Reverse non-repetitive peak voltage			V <sub>RSM</sub>	700	900	1100	1300	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 <sub>(AV)</sub>	20				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 <sub>FSM</sub>	300				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 <sup>2</sup> t	373				A <sup>2</sup> s
结温 Junction temperature			T <sub>J</sub>	-55 ~ +150				°C
存储温度 Storage Temperature			T <sub>STG</sub>	-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 <sub>ids</sub>	2.5				KV
安装扭矩 Mounting torque	推荐扭矩 : 5kgf·cm recommend torque : 5kgf·cm		Tor	8				Kgf·cm
电性特性 Electrical Characteristics ( Ta=25°C Unless otherwise specified )								
正向峰值电压 Peak Forward Voltage	IF=10A, 脉冲测试, 单个二极管的额定值 IF=10A,Pulse measurement, Rate of per diode	Ta=25°C	V <sub>F</sub>	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 <sub>R</sub>	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 <sub>θJA</sub>	22			°C/W	
	结到管壳的热阻,有散热片 Junction to case, with heatsink		R <sub>θJC</sub>	1.5 <sup>(1)</sup>				
备注 : 1、安装在 100mm×100mm×1.6mm 铝板散热器上的装置 Device mounted on 100mm x 100mm x 1.6mm Al Plate Heatsink								

## 20A 特性曲线

FIG.1 . Derating Curve For Output Rectified Current

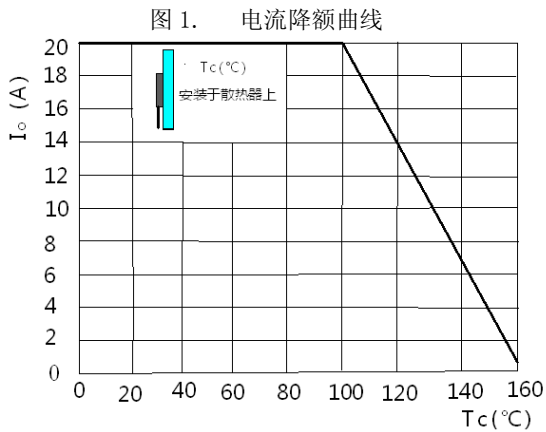


FIG.2 . Maximum Non-Repetitive Peak Orward Surge Current Per Bridge Element

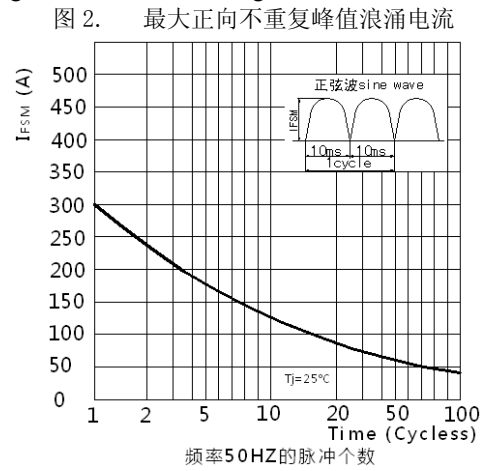


FIG3. Typical Reverse Characteristics Per Bridge Element

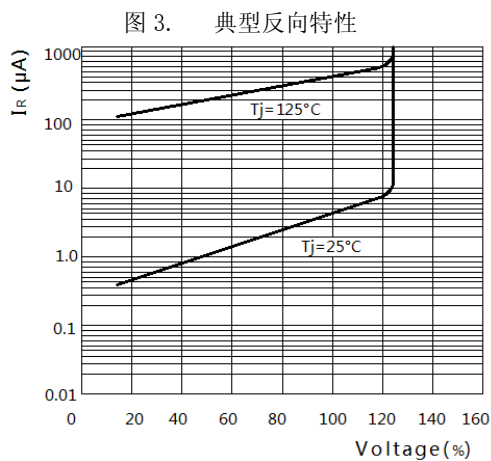
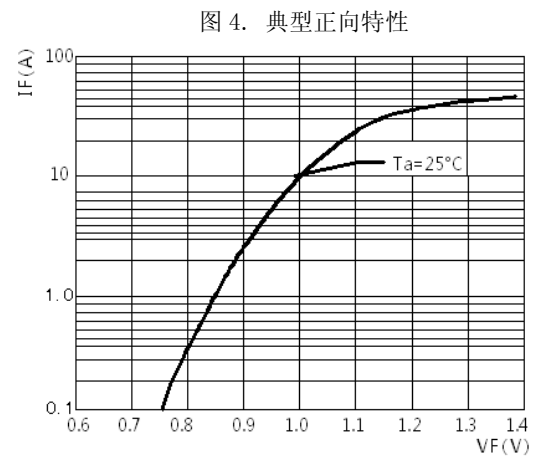
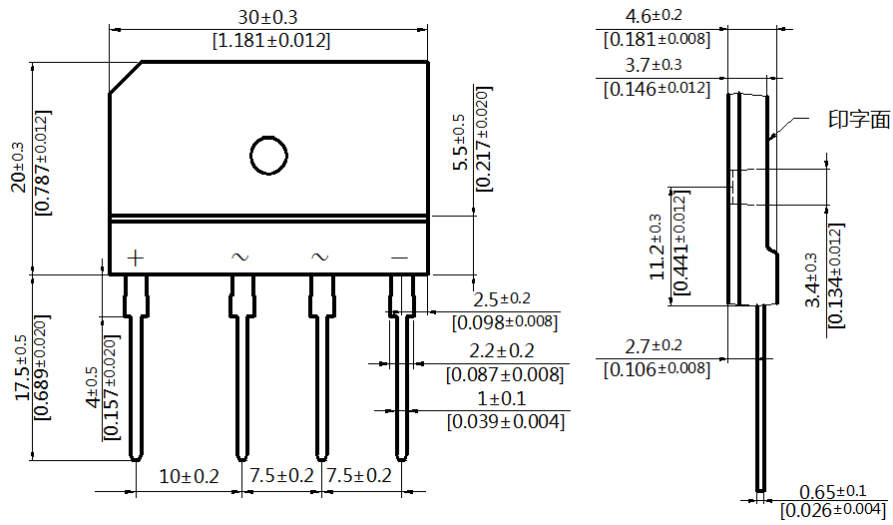


FIG4. Typical Forward Characteristics Per Bridge Element



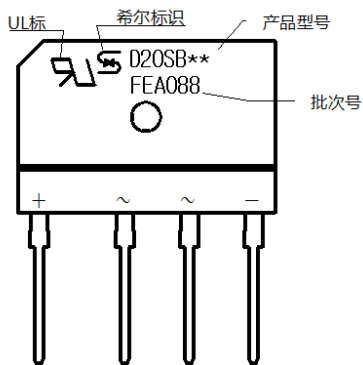
## 尺寸图 Dimensioned drawing



Dimensions in millimeters and inches

## 标记图

## Marking Diagram



注：D-SB 表示封装代码，20 表示电流 20A，\*\*为反向峰值电压，  
 核算公式=数值\*10

## 外形图

## Outside view

正面



反面

