

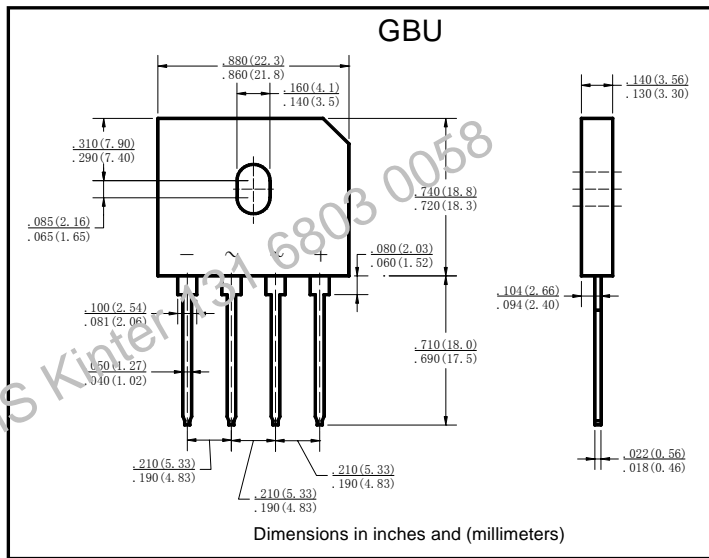
■ Features

- $I_o$  20A
- $V_{RRM}$  50V~1000V
- 玻璃钝化芯片  
Glass passivated chip
- 耐正向浪涌电流能力高  
High surge forward current capability

■ Applications

- 作一般电源单相桥式整流用  
General purpose 1 phase Bridge rectifier applications

■ Outline Dimensions and Mark



■ Limiting Values (Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	GBU20						
				005	01	02	04	06	08	10
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	V		50	100	200	400	600	800	1000
平均整流输出电流 Average Rectified Output Current	$I_o$	A	60Hz正弦波, 电阻负载 60Hz sine wave, R-load	用散热片 $T_c = 87^\circ C$ With heatsink $T_c = 87^\circ C$	20					
				无散热片 $T_a = 25^\circ C$ Without heatsink $T_a = 25^\circ C$	3.5					
正向(不重复)浪涌电流 Surge(Non-repetitive) Forward Current	$I_{FSM}$	A	60Hz正弦波, 一个周期, $T_j = 25^\circ C$ 60Hz sine wave, 1 cycle, $T_j = 25^\circ C$	240						
正向浪涌电流的平方对电流浪涌持续时间的积分值 Current Squared Time	$I^2t$	A <sup>2</sup> S	1ms ≤ t < 8.3ms $T_j = 25^\circ C$ , 单个二极管 1ms ≤ t < 8.3ms $T_j = 25^\circ C$ , Rating of per diode	240						
存储温度 Storage Temperature	$T_{stg}$	°C		-55 ~ +150						
结温 Junction Temperature	$T_j$	°C		-55 ~ +150						
绝缘耐压 Dielectric Strength	$V_{dis}$	KV	端子与外壳之间外加交流电, 一分钟 Terminals to case, AC 1 minute	2.5						
安装扭矩 Mounting Torque	Tor	kg · cm	推荐值: 5kg · cm Recommend torque: 5kg · cm	8						

■ Electrical Characteristics ( $T_a = 25^\circ C$  Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	最大值 Max
正向峰值电压 Peak Forward Voltage	$V_{FM}$	V	$I_{FM} = 10A$ , 脉冲测试, 单个二极管的额定值 $I_{FM} = 10A$ , Pulse measurement, Rating of per diode	1.1
反向峰值电流 Peak Reverse Current	$I_{RRM}$	μA	$V_{RM} = V_{RRM}$ , 脉冲测试, 单个二极管的额定值 $V_{RM} = V_{RRM}$ , Pulse measurement, Rating of per diode	10
热阻 Thermal Resistance	$R_{\theta J-A}$	°C/W	结和环境之间, 无散热片 Between junction and ambient, Without heatsink	22
	$R_{\theta J-C}$		结和管壳之间, 用散热片 Between junction and case, With heatsink	1.5

■ Characteristics(Typical)

图1:  $I_o$ - $T_c$ 曲线  
 FIG1:  $I_o$ - $T_c$  Curve

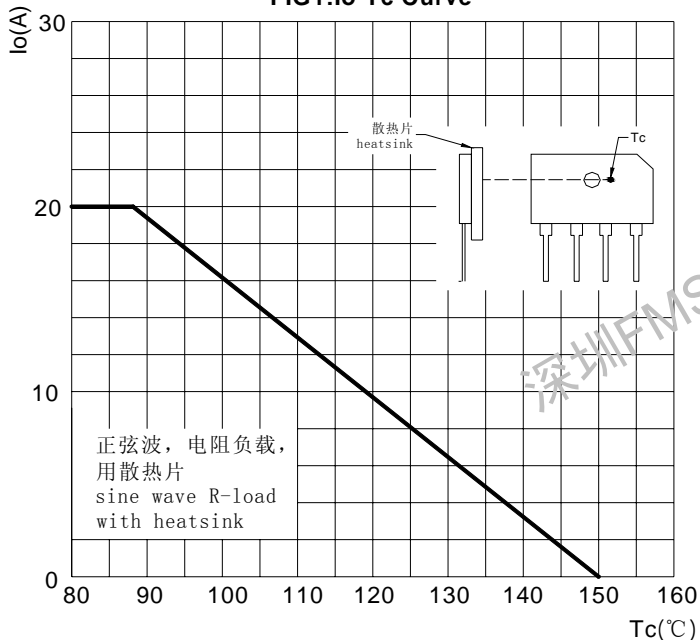


图2: 耐正向浪涌电流曲线  
 FIG2: Surge Forward Current Capability

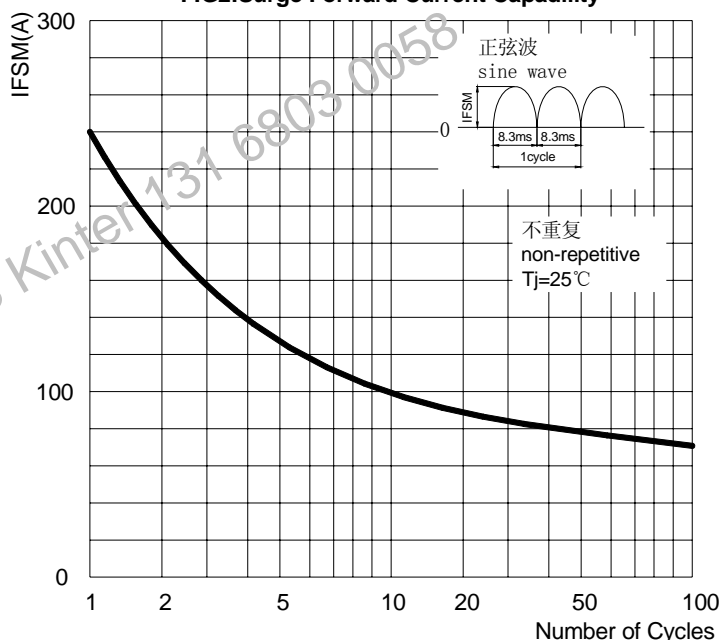


图3: 正向电压曲线  
 FIG3: Forward Voltage

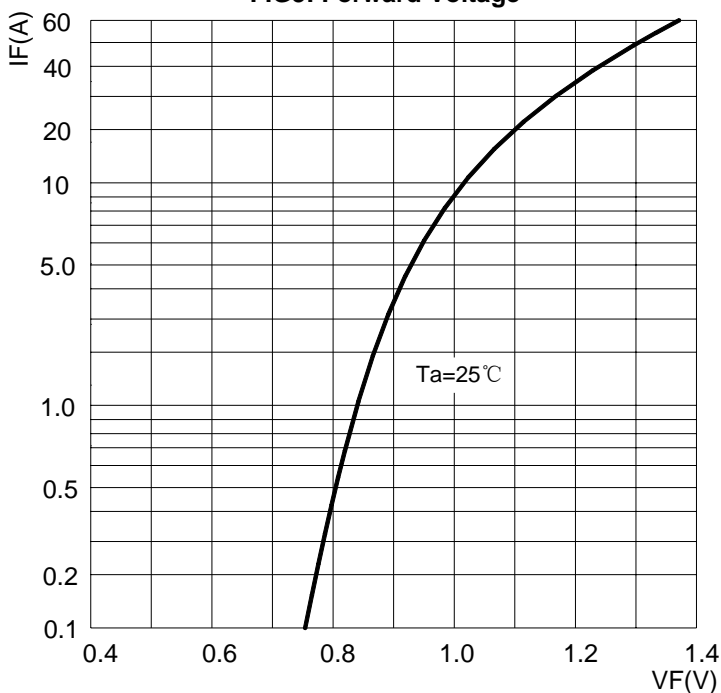


图4: 反向电流曲线  
 FIG4: Typical Reverse Characteristics

