



## 桥式整流器 Bridge Rectifier

### ■特征 Features

- $I_o$  4A
- $V_{RRM}$  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

### ■用途 Applications

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

### ■极限值（绝对最大额定值）

#### Limiting Values (Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	KBU4						
				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	$T_c=110^\circ\text{C}$	4					
				$T_a=25^\circ\text{C}$	2.2					
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, $T_a=25^\circ\text{C}$ 60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	120						
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	$I^2t$	$A^2s$	1ms $\leq t < 8.3ms$ $T_j=25^\circ\text{C}$ , 单个二极管 1ms $\leq t < 8.3ms$ $T_j=25^\circ\text{C}$ , Rating of per diode	60						
存储温度 Storage Temperature	$T_{stg}$	$^\circ\text{C}$		-55 ~+150						
结温 Junction Temperature	$T_j$	$^\circ\text{C}$		-55 ~+150						

### ■电特性（ $T_a=25^\circ\text{C}$ 除非另有规定）

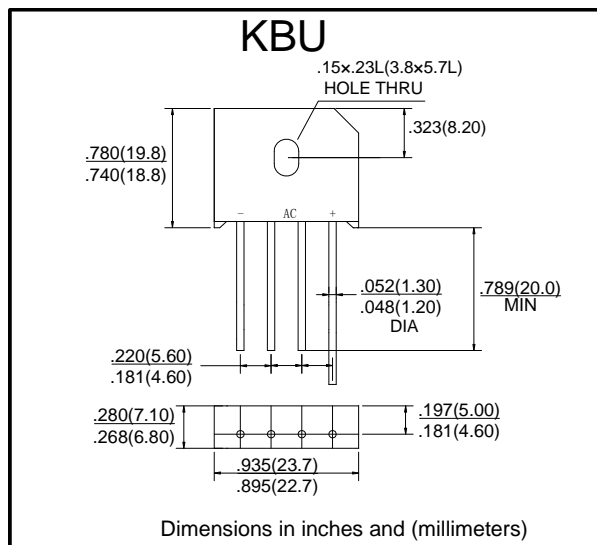
#### Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

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	$I_{FM}=4A$ , 脉冲测试, 单个二极管的额定值 $I_{FM}=4A$ , Pulse measurement, Rating of per diode	1.1
反向峰值电流 Peak Reverse Current	$I_{RRM}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$ , 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	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	结和环境之间 Between junction and ambient	13 <sup>(1)</sup>
	$R_{\theta J-C}$		结和外壳之间 Between junction and case	7.5 <sup>(2)</sup>

说明 (Notes):

- (1) 在空气中, 安装在没有散热片的PCB铜焊盘上, 引线长0.375"(9.5mm), 铜焊盘0.5\*0.5"(12\*12mm).
- (1) Units Mounted in free air, no heat sink, P.C.B. at 0.375" (9.5mm) lead length with 0.5x0.5" (12x12mm) copper pads.
- (2) 安装在铝板散热器上.
- (2) Units Mounted on a aluminum plate heat sink.

### ■外形尺寸和印记 Outline Dimensions and Mark



■ 特性曲线 (典型) Characteristics(Typical)

图1: Io-T 曲线  
FIG1:Io-T Curve

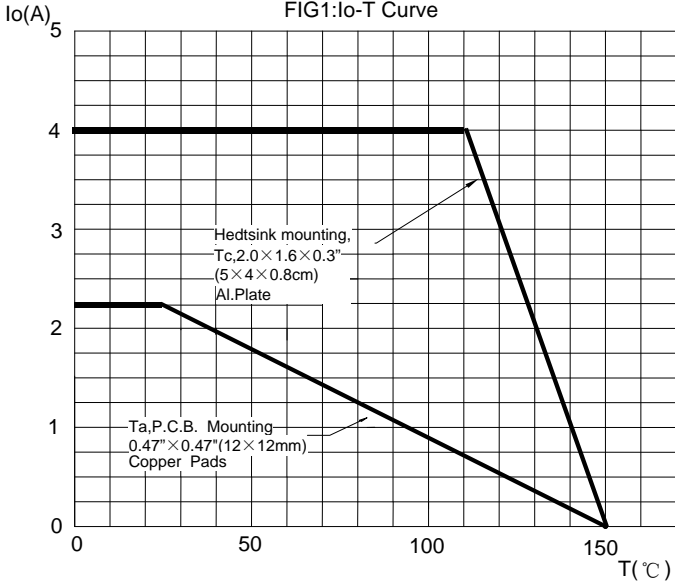


图2: 耐正向浪涌电流曲线  
FIG2:Surge Forward Current Capadility

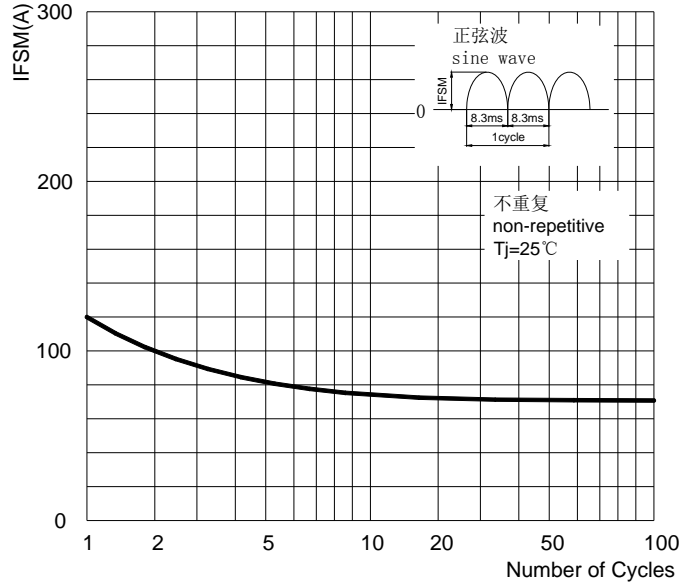


图3: 正向电压曲线  
FIG3:Instantaneous Forward Voltage

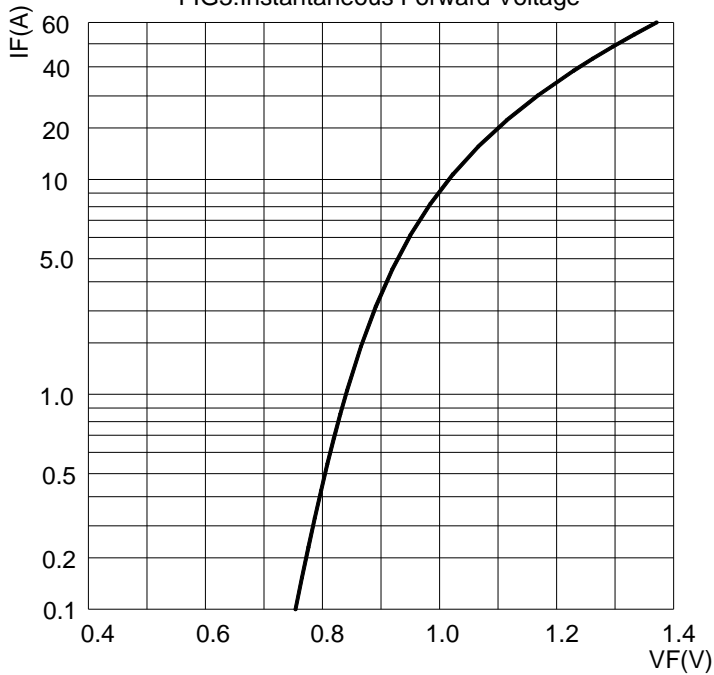


图4: 反向电流曲线  
FIG4:Typical Reverse Characteristics

