



# KBJ6005 THRU KBJ610

## 桥式整流器 Bridge Rectifier

### ■特征 Features

- $I_o$  6A
- $V_{RRM}$  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)

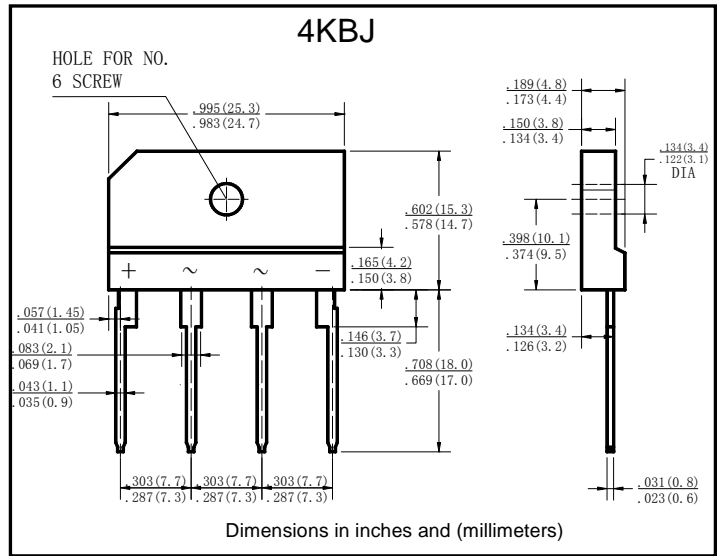
参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	KBJ6						
				005	01	02	04	06	08	10
反向重复峰值电压 Repetitive Peak Reverse Voltage	$V_{RRM}$	V		50	100	200	400	600	800	1000
平均整流输出电流 Average Rectified Output Current	$I_o$	A	60Hz正弦波, 电阻负载 60Hz sine wave, R-load	用散热片 $T_c = 110^\circ\text{C}$ With heatsink $T_c = 110^\circ\text{C}$	6					
				无散热片 $T_a = 25^\circ\text{C}$ Without heatsink $T_a = 25^\circ\text{C}$	2.8					
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, $T_j = 25^\circ\text{C}$ 60Hz sine wave, 1 cycle, $T_j = 25^\circ\text{C}$	135						
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	$I^2t$	$\text{A}^2\text{S}$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j = 25^\circ\text{C}$ , 单个二极管 $1\text{ms} \leq t < 8.3\text{ms}$ $T_j = 25^\circ\text{C}$ , Rating of per diode	75						
存储温度 Storage Temperature	$T_{stg}$	$^\circ\text{C}$		-55 ~ +150						
结温 Junction Temperature	$T_j$	$^\circ\text{C}$		-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						
安装扭矩 Mounting Torque	Tor	$\text{kg} \cdot \text{cm}$	推荐值: $5\text{kg} \cdot \text{cm}$ Recommend torque: $5\text{kg} \cdot \text{cm}$	8						

### ■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	$I_{FM} = 3\text{A}$ , 脉冲测试, 单个二极管的额定值 $I_{FM} = 3\text{A}$ , Pulse measurement, Rating of per diode	1.05
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	$R_{\theta JA}$	$^\circ\text{C}/\text{W}$	结和环境之间, 无散热片 Between junction and ambient, Without heatsink	26
	$R_{\theta JC}$		结和管壳之间, 用散热片 Between junction and case, With heatsink	3.4

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



## ■特性曲线（典型） Characteristics(Typical)

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

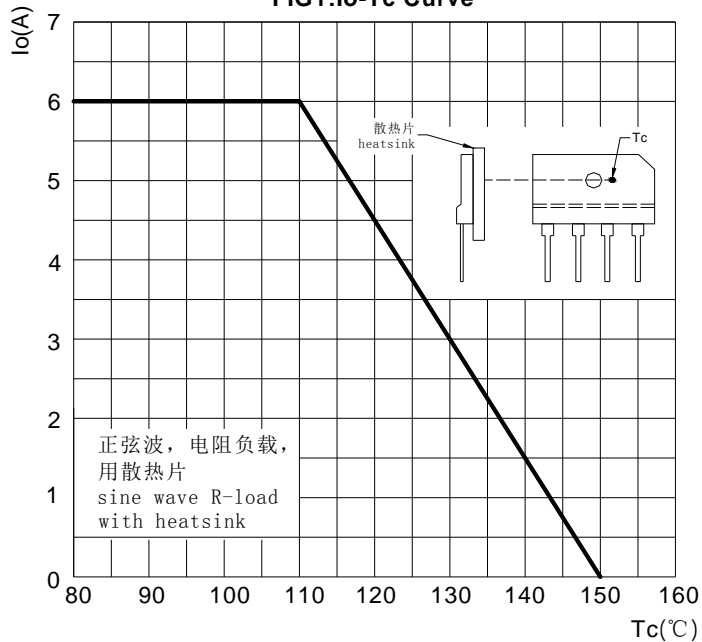


图2: 耐正向浪涌电流曲线  
FIG2: Surge Forward Current Capability

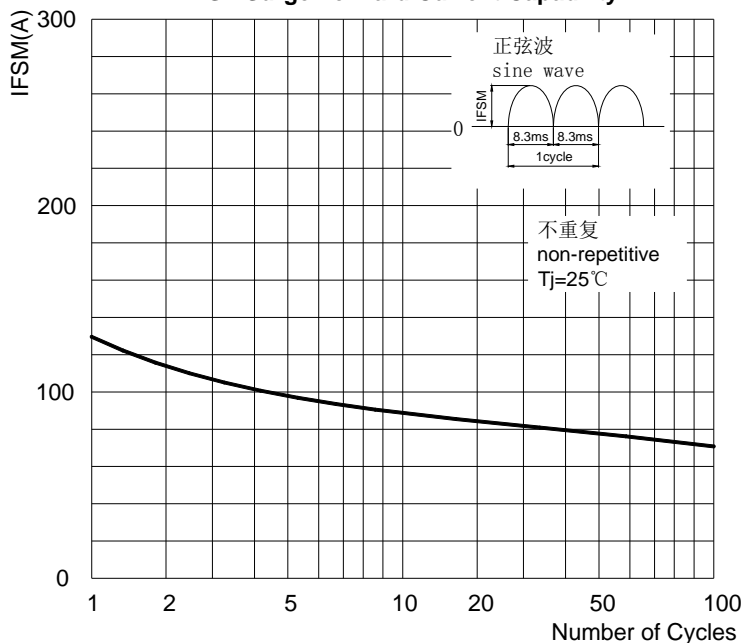


图3: 正向电压曲线  
FIG3: Forward Voltage

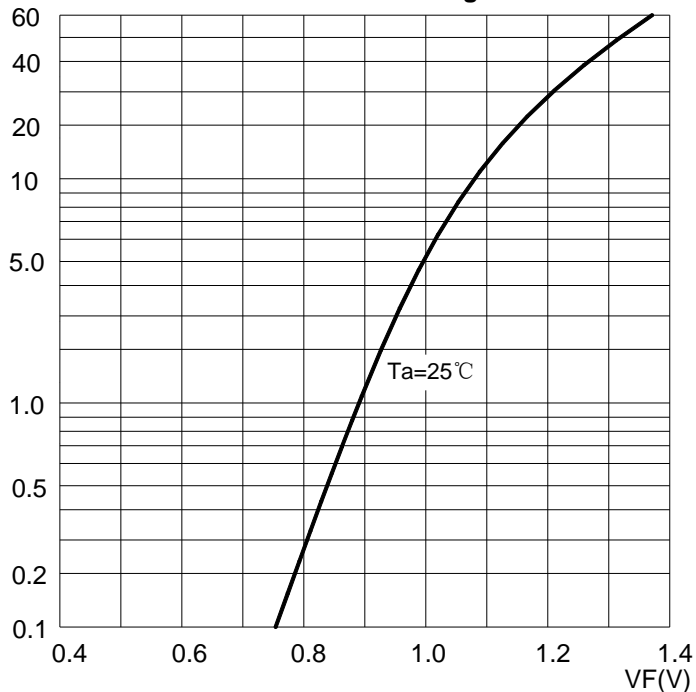


图4: 反向电流曲线  
FIG4: Typical Reverse Characteristics

