



## 桥式整流器 Bridge Rectifier

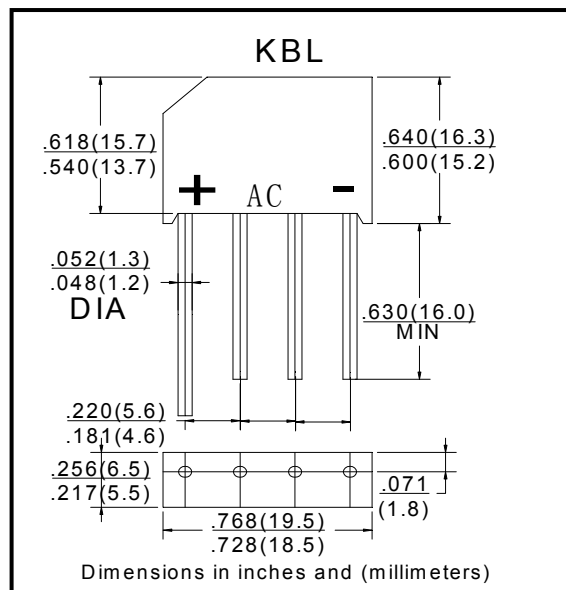
## ■特征 Features

- $I_o$  5A
- $V_{RRM}$  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

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



## ■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	RS5						
				01	02	03	04	05	06	07
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, $T_a=40^\circ\text{C}$ 60Hz sine wave, R- load, $T_a=40^\circ\text{C}$	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, $T_a=25^\circ\text{C}$ 60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	150						
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	93						
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	$I_{FM}=5\text{A}$ , 脉冲测试, 单个二极管的额定值 $I_{FM}=5\text{A}$ , 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	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	结和环境之间 Between junction and ambient	13 <sup>(1)</sup>
	$R_{\theta J-L}$		结和引线之间 Between junction and lead	2.4 <sup>(2)</sup>

说明 (Notes):

- (1) PN结到周围环境的熱阻, 安装在 $3.0 \times 3.0 \times 0.11$ " ( $7.5 \times 7.5 \times 0.3$  cm) 规格的铝板上  
Thermal resistance from junction to ambient with units mounted on  $3.0 \times 3.0 \times 0.11$ " thick ( $7.5 \times 7.5 \times 0.3$  cm) aluminum plate
- (2) PN结到引线的熱阻, 安装在PCB板上, 引线长 $0.375$ " ( $9.5$  mm), 铜板 $0.5 \times 0.5$ " ( $12 \times 12$  mm)  
Thermal resistance from junction to lead with units mounted on P.C.B. at  $0.375$ " ( $9.5$  mm) lead length and  $0.5 \times 0.5$ " ( $12 \times 12$  mm) copper pads



■特性曲线（典型） Characteristics(Typical)

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

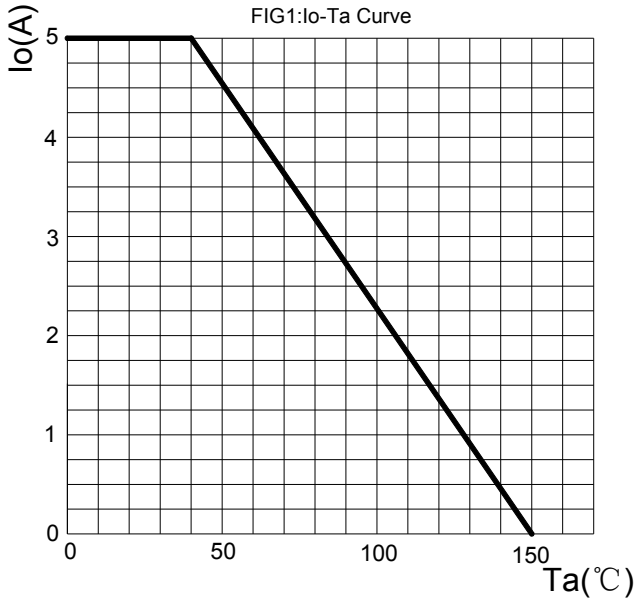


图2: 耐正向浪涌电流曲线  
FIG2:Surge Forward Current Capadility

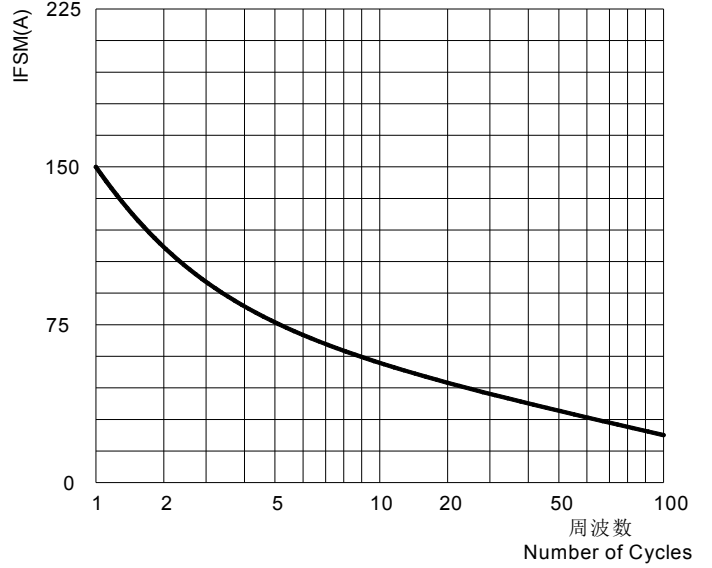


图3: 正向电压曲线  
FIG3:Instantaneous Forward Voltage

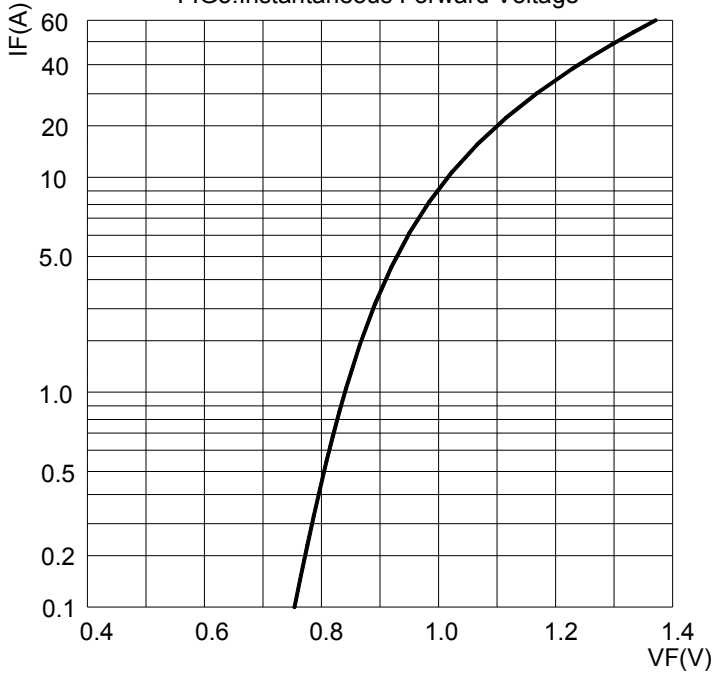


图4: 反向电流曲线  
FIG4:Typical Reverse Characteristics

