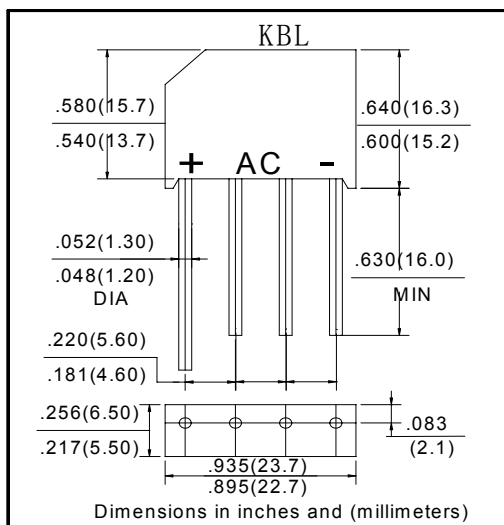## 桥式整流器 Bridge Rectifier

■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

■外形尺寸和印记 Outline Dimensions and Mark

Dimensions in inches and (millimeters)

■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	KBL4						
				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，T_a=40℃ 60Hz sine wave, R- load, T_a=40℃	4						
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℃ 60Hz sine wave, 1 cycle, T_a=25℃	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	A^2s	1ms≤t＜8.3ms T_j=25℃,单个二极管 1ms≤t＜8.3ms T_j=25℃,Rating of per diode	93						
存储温度 Storage Temperature	T_{STG}	℃		-55 ~+150						
结温 Junction Temperature	T_J	℃		-55 ~+150						

■电特性 （T_a=25℃ 除非另有规定）

Electrical Characteristics（T_a=25℃ 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	1.05
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	$R_{\theta J-A}$	℃/W	结和环境之间 Between junction and ambient	13[1]
	$R_{\theta J-L}$		结和引线之间 Between junction and lead	2.4[2]

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

■特性曲线（典型） **Characteristics(Typical)**
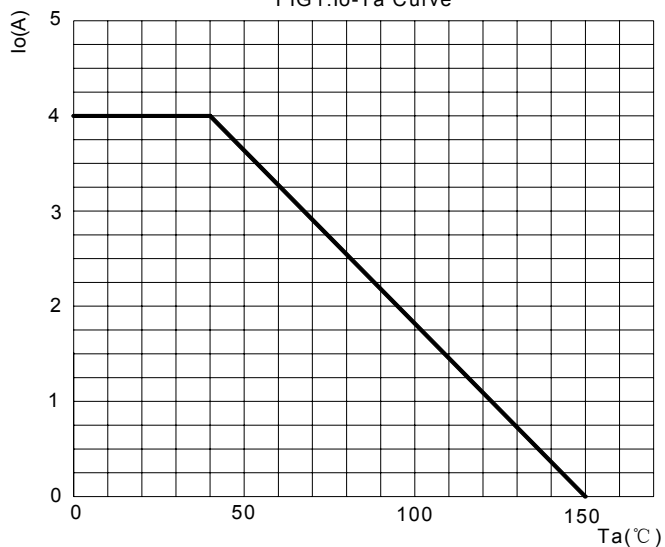
图1：Io-Ta曲线
FIG1:Io-Ta Curve
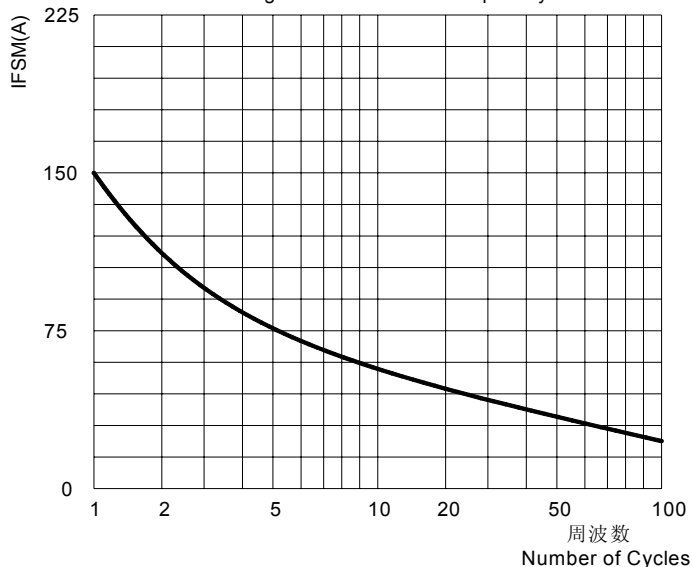
图2：耐正向浪涌电流曲线
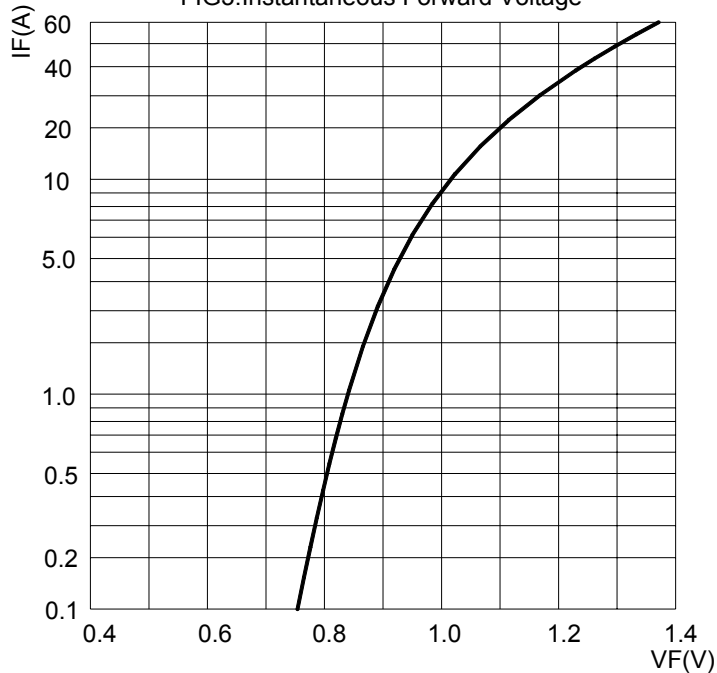FIG2:Surge Forward Current Capadility

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

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