



桥式整流器 Bridge Rectifier

■ 特征 Features

- I_o 10.0A
- 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)

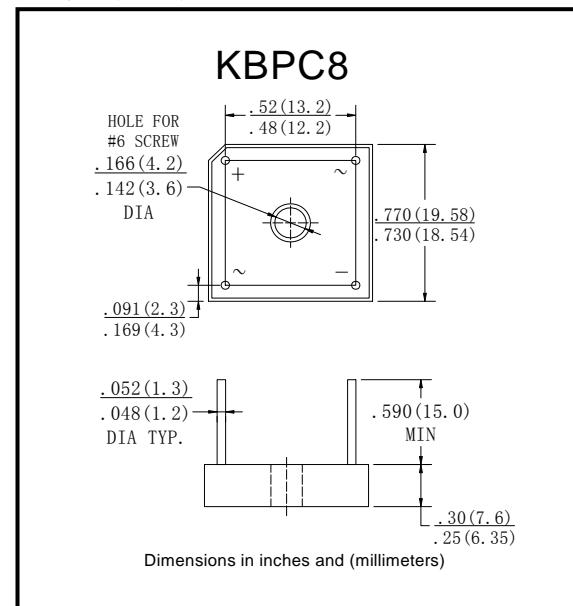
Limiting Values(Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	KBPC10							
				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, $T_a=40^\circ C$ 60Hz sine wave, R- load, $T_a=40^\circ C$								10.0
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, $T_a=25^\circ C$ 60Hz sine wave, 1 cycle, $T_a=25^\circ C$								200
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 $T_j=25^\circ C$, 单个二极管 1ms ≤ t < 8.3ms $T_j=25^\circ C$, Rating of per diode								166
存储温度 Storage Temperature	T_{stg}	°C									-55 ~+150
结温 Junction Temperature	T_j	°C									-55 ~+150

■ 电特性 ($T_a=25^\circ C$ 除非另有规定)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	$I_{FM}=5.0A$, 脉冲测试, 单个二极管的额定值 $I_{FM}=5.0A$, 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 Between junction and ambient	5

■ 外形尺寸和印记 Outline Dimensions and Mark





■特性曲线（典型） Characteristics(Typical)

图1: Io-Ta曲线

FIG1:Io-Ta Curve

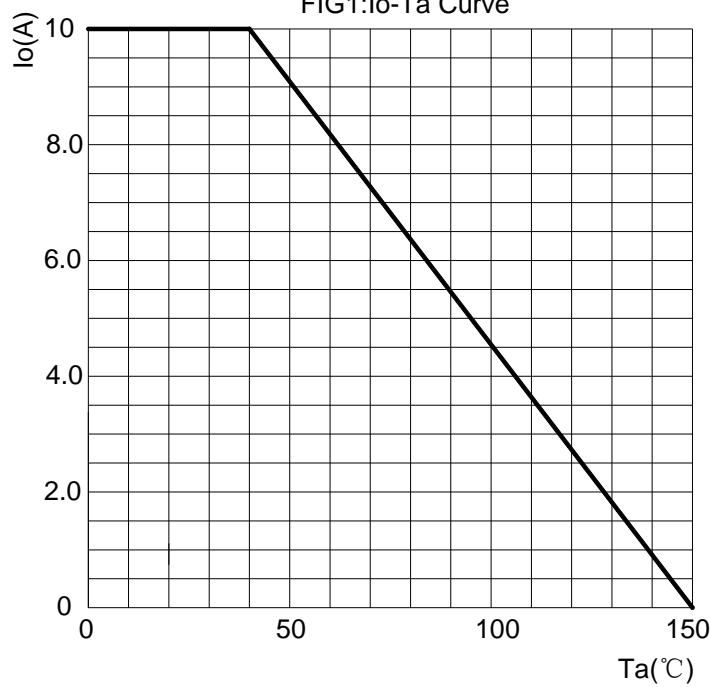


图2: 耐正向浪涌电流曲线

FIG2:Surge Forward Current Capability

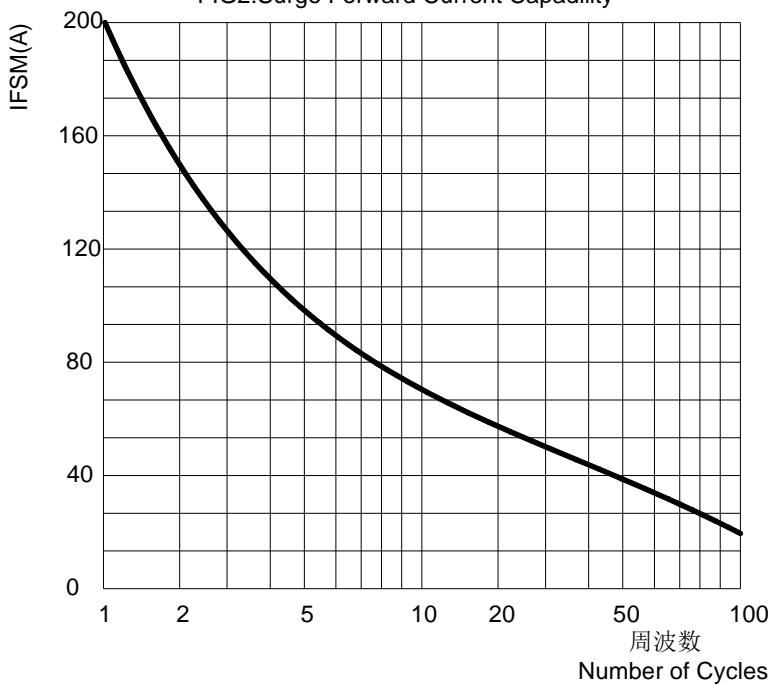


图3: 正向电压曲线

FIG3:Instantaneous Forward Voltage

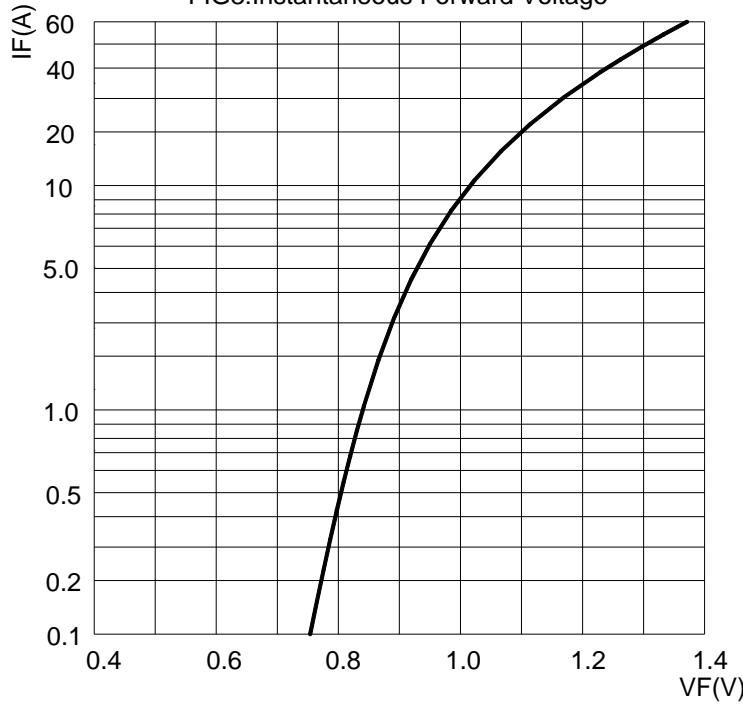


图4: 反向电流曲线

FIG4:Typical Reverse Characteristics

