

桥式整流器 Bridge Rectifier

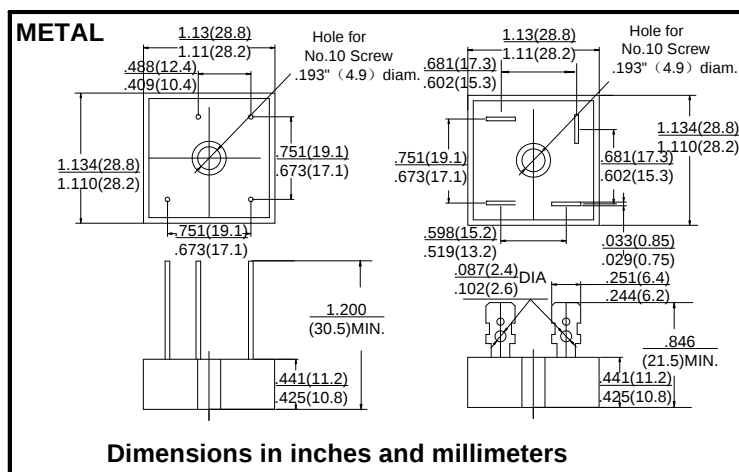
■特征 Features

- I_o 50A
- V_{RRM} 50V~1000V
- 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		KBPC						
					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	用散热器 Tc=55℃ With heatsink Tc=55℃	50						
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℃		500						
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	I²t	A²S	1ms≤t<8.3ms Tj=25℃，单个二极管 1ms≤t<8.3ms Tj=25℃，Rating of per diode		1040						
存储温度 Storage Temperature	T _{stg}	℃			-55 ~+150						
结温 Junction Temperature	T _j	℃			-55~+125						
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		2.5						
安装扭矩 Mounting Torque	TOR	kg·cm	推荐值：10kg·cm Recommend torque: 10kg·cm		20						

■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	$I_{FM}=25A$, 脉冲测试, 单个二极管的额定值 $I_{FM}=25A$, 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	$R_{\theta J-C}$	$^{\circ}C/W$	结和桥壳之间, 用散热片 Between junction and case. With heatsink	0.7

■特性曲线（典型） Characteristics(Typical)

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

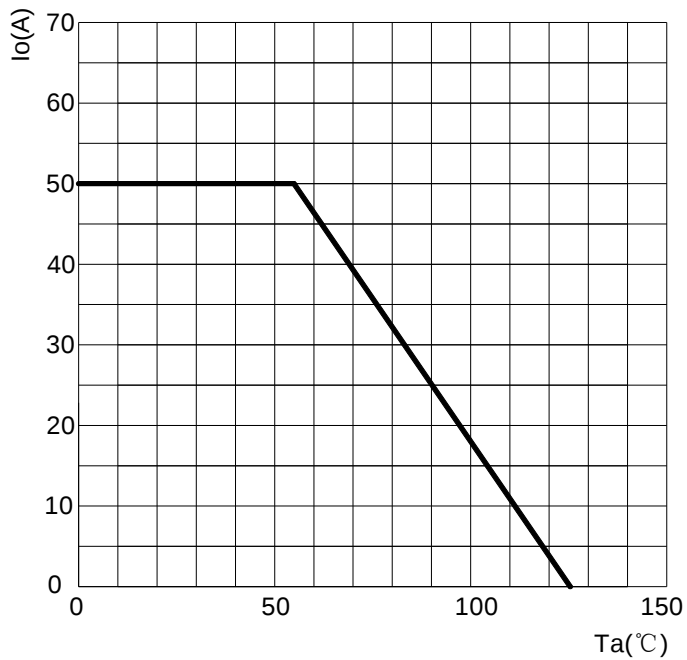


图2: 耐正向浪涌电流曲线
FIG2: Surge Forward Current Capability

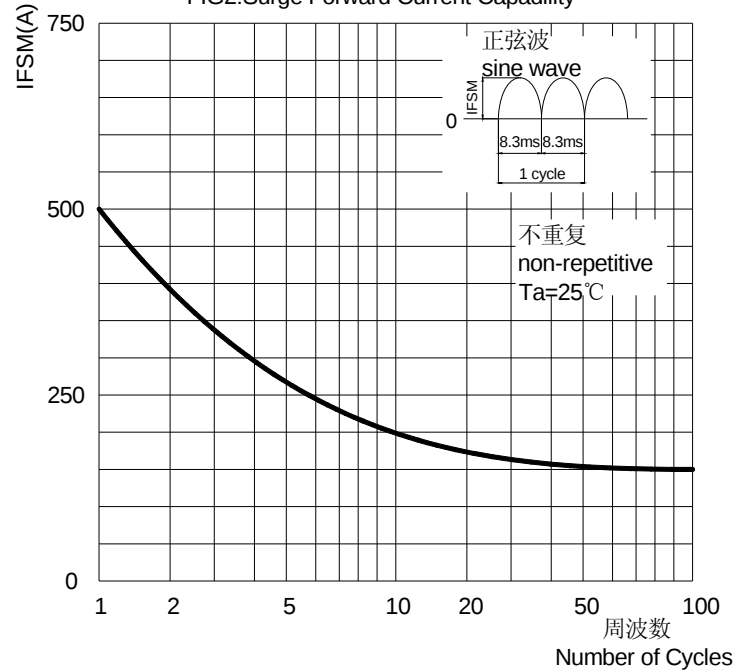


图3: 正向电压曲线
FIG3: Instantaneous Forward Voltage

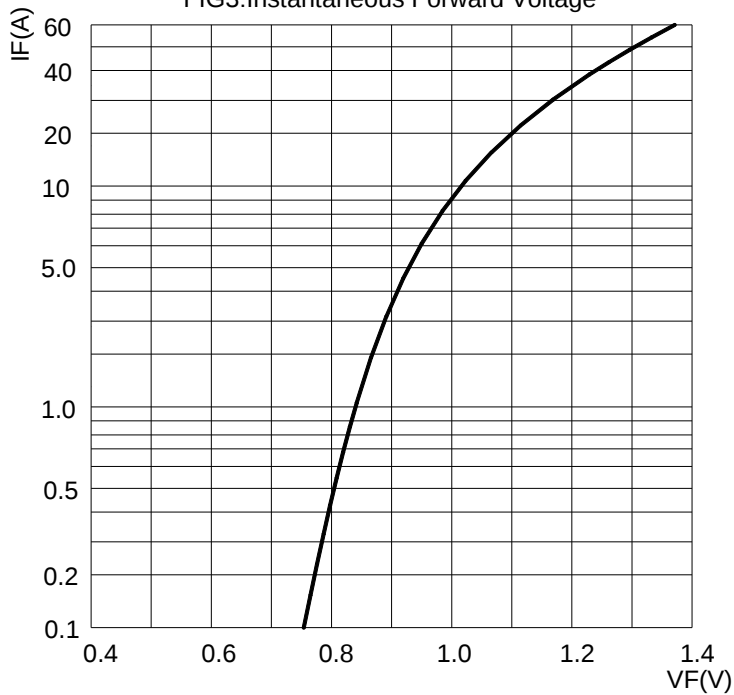


图4: 反向电流曲线
FIG4: Typical Reverse Characteristics

