



桥式整流器 Bridge Rectifier

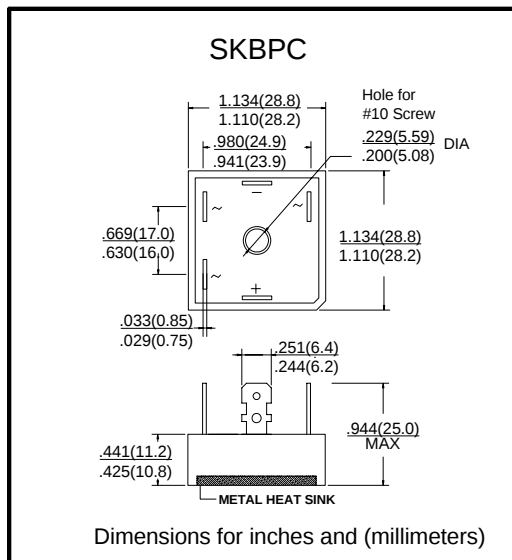
■特征 Features

- I_o 25A
- V_{RRM} 400V~1600V
- 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

- 作一般电源三相桥式整流用
General purpose 3 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	SKBPC25						
				04	06	08	10	12	14	16
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		400	600	800	1000	1200	1400	1600
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	25						
正向（不重复）浪涌电流 Surge(Nonrepetitive) Forward Current	I_{FSM}	A	60Hz正弦波, 一个周期, $T_a=25^{\circ}C$ 60Hz sine wave, 1 cycle, $T_a=25^{\circ}C$	400						
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 ² S	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	660						
存储温度 Storage Temperature	T_{stg}	°C		-40 ~+150						
结温 Junction Temperature	T_j	°C		-40~+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	2.5						

■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	$I_{FM}=8.5A$, 脉冲测试, 单个二极管的额定值 $I_{FM}=8.5A$, Pulse measurement, Rating of per	1.2
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	$R_{\theta J-C}$	°C/W	结和管壳之间, 用散热器 Between junction and case, With heatsink	1.9

■特性曲线（典型） Characteristics(Typical)

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

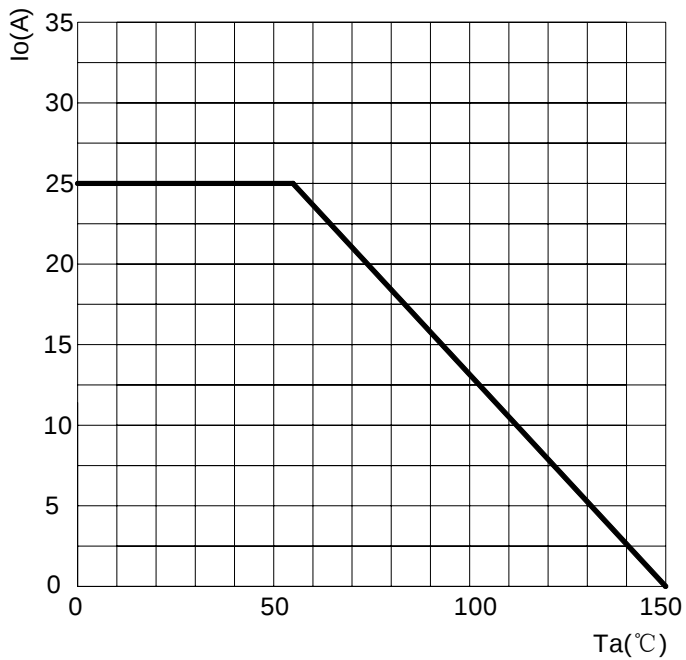


图2: 耐正向浪涌电流曲线
FIG2: Surge Forward Current Capability

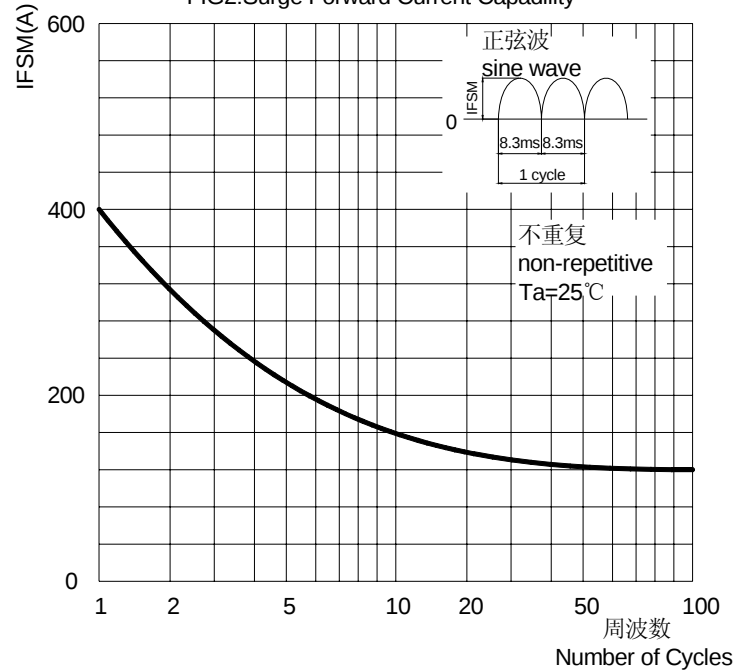


图3: 正向电压曲线
FIG3: Instantaneous Forward Voltage

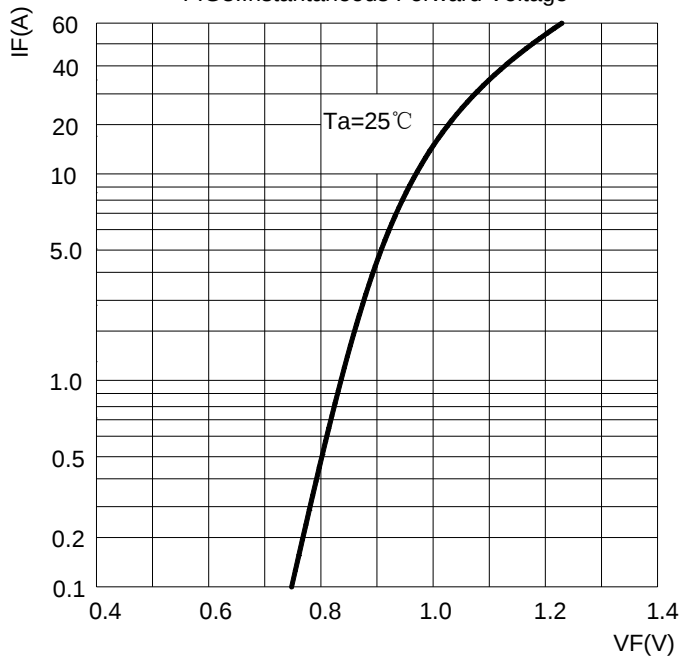


图4: 反向电流曲线
FIG4: Typical Reverse Characteristics

