

10A ,600V-1200V 单相玻璃钝化整流桥

10A ,600V-1200V Single Phase Glass Passivated Bridge Rectifier

■特征 Features

玻璃钝化芯片
Glass passivated chip
低反向漏电流
Low reverse leakage current
高耐浪涌电流能力
High surge current capability

关键参数 KEY PARAMETERS		
参数 PARAMETER	数值 VALUE	单位 UNIT
$I_{F(AV)}$	10	A
V_{RRM}	600-1200	V
I_{FSM}	150	A
Package	KBPC	

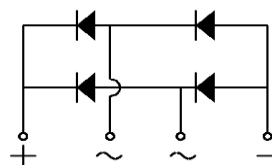
■应用范围 Applications

电焊机
Electric welder
工业电源
Industrial power supply
逆变器
Inverter
不间断电源
Uninterruptible power supply



■机械参数 Mechanical Data

本体：KBPC
Case: KBPC
极性：极性符号铸在管体上
Polarity: Polarity symbols being marked on body
安装扭矩：12.0 kgf.cm
Mounting torque:12.0 kgf.cm max
重量：约 17 克
Weight: About 17 grams



■最大额定值 Maximum Ratings @ Ta = 25°C unless otherwise noted

参数 PARAMETER	符号 SYMBOL	KBPC1006	KBPC1008	KBPC1010	KBPC1012	单位 UNIT
反向重复峰值电压 Maximum recurrent peak reverse voltage	V_{RRM}	600	800	1000	1200	V
平均整流输出电流 Averagerectifiedoutputcurrent	$I_{(AV)}$	10				A
最大正向浪涌电流, 8.3ms单半正弦波叠加在额定负载上 Peak surge forward current, 8.3mssingle half sine-wave superimposed on rated load	I_{FSM}	150				A
热容值, 1ms<t<8.3msTj=25°C, 单个二极管 Rating for fusing 1ms<t<8.3msTj=25°C, Rating of per diode	I^2t	248				A ² s
结温 Junctiontemperature	T_J	-55 ~ +150				°C
存储温度 Storage temperature	T_{STG}	-55 ~ +150				°C
绝缘耐压, 端子与外壳之间外加交流电 1 分钟 Dielectric strength terminals to case AC 1 minute	V_{dis}	2.5				KV

■电性特性 Electrical Characteristics @ Ta = 25 °C unless otherwise noted

参数 PARAMETER	条件 CONDITIONS	符号 SYMBOL	额定值 RATED VALUE	单位 UNIT
正向峰值电压 Peak Forward Voltage	$I_F = 5A$	V_F	1.1	V
反向峰值电流 Peak Reverse Current	VR=VRRM , 脉冲测试, 单个二极管的额定值 VR=VRRM ,Pulse measurement Rating of per diode	I_R	5	μA
	$T_J=25^{\circ}C$		500	
	$T_J=125^{\circ}C$			

■热特性 Thermal Characteristics @ Ta =25°C unless otherwise noted

参数 PARAMETER	符号 SYMBOL	额定值 RATED VALUE	单位 UNIT
结到环境的热阻, 无散热片 Junction to ambient thermal resistance, without heatsink	$R_{\theta JA}$	26	$^{\circ}C/W$
结到管壳的热阻, 有散热片 Junction to case thermal resistance, with heatsink	$R_{\theta JC}$	1.8	$^{\circ}C/W$

■特性曲线 Characteristic Curve

FIG1.Derating Curve For Output Rectified Current

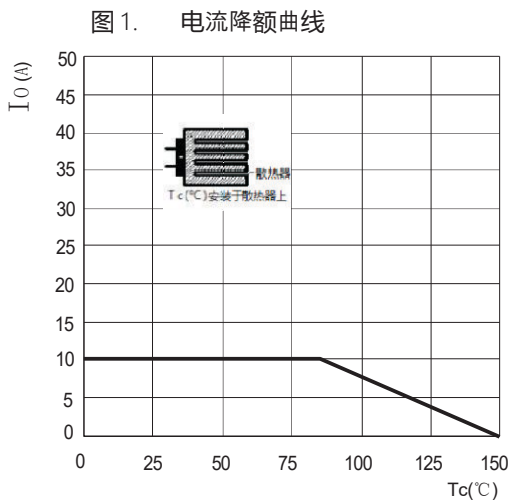


FIG2. Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

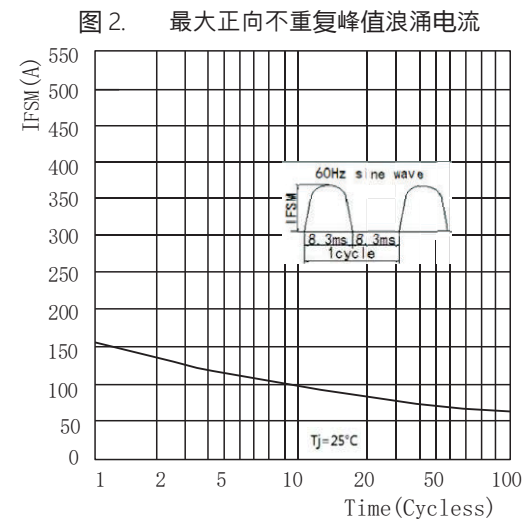


FIG3. Typical Reverse Characteristics Per Bridge Element

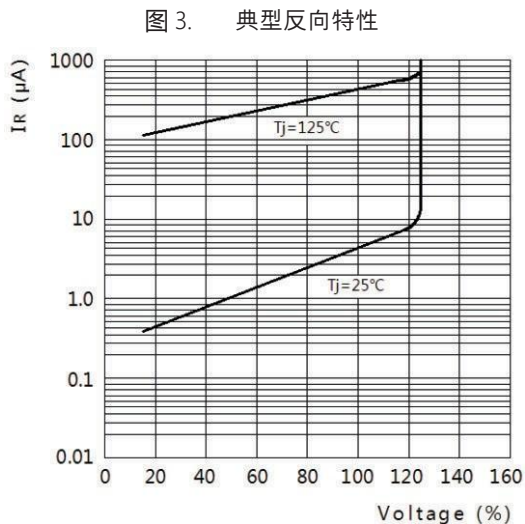
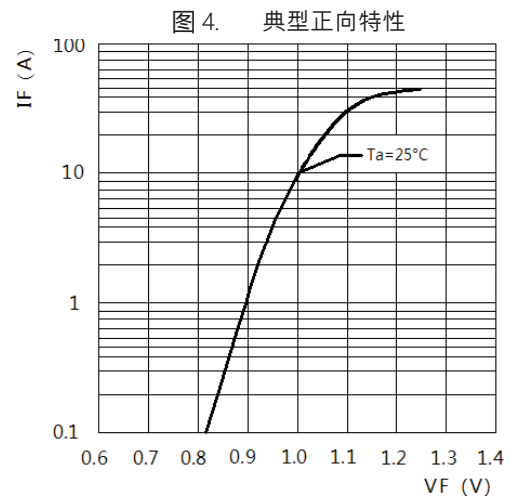
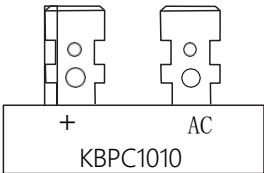


FIG4. Typical Forward Characteristics Per Bridge Element

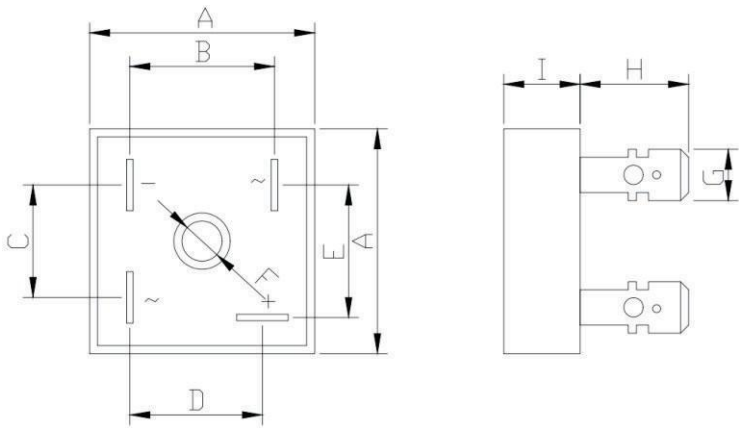


■ 标记图 Marking Diagram



KBPC1010 : 标识代码
Marking code

■ 尺寸图 Dimension Drawing



Dim.	Unit(mm)		Unit(inch)	
	Min.	Max.	Min.	Max.
A	27.50	28.50	0.547	0.587
B	17.70	18.70	0.618	0.657
C	14.00	15.00	0.177	0.217
D	16.50	17.50	0.689	0.728
E	16.50	17.50	0.689	0.728
F	5.00	5.50	0.240	0.256
G	6.10	6.50	0.240	0.256
H	11.00	11.50	0.374	0.413
I	11.00	11.50	0.374	0.413