

产品规格书

DATA SHEET

产品名称： 单相整流桥

产品型号： KBL406 thus KBL410

产品描述： 玻璃钝化芯片整流桥

4A (600V-1000V)

制作人	审核	核准

4A,600V-1000V 玻璃钝化整流桥
4A,600V-1000V 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

高耐浪涌电流能力达120安培

High surge current capability to 120 Amperes

塑封料已经UL可燃性认证94V-0，UL档案编号：E249161

Plastic material has Underwriters Laboratory flammability recognition 94V-0，Recognized File # E249161

符合ROHS要求，其中铅被欧盟ROHS指令2011/65/EU豁免。

In accordance with the ROHS requirements, lead was exempted from ROHS 2011/65/EU.

高温焊接保证：260°C±5°C/10秒，拉力2.3 Kgf.cm

High temperature soldering guaranteed: 260°C±5°C/10 seconds (2.3 Kgf.cm)tension.

**机械参数 Mechanical Data**

本体：塑封

Case: Molded plastic case

极性：极性符号铸在管体上

Polarity: Polarity symbols being marked on body

重量：约4.5克

Weight: About 4.5grams

最大额定值 Maximum Ratings Parameter @ Ta = 25°C unless otherwise noted							
名词解释 Noun interpretation	参数条件 Conditions		符号 Symbol	额定值 Rated Value			单位 Unit
				06	08	10	
反向重复峰值电压 Maximum Recurrent Peak Reverse Voltage			V _{RRM}	600	800	1000	V
反向不重复峰值电压 Reverse non-repetitive peak voltage			V _{RSM}	700	900	1100	V
平均整流输出电流 Average Rectified Output Current	50Hz 正弦波负载, 50Hz sine wave load	带散热片, Ta=40°C With heat sink, Ta=40°C	I _(AV)	4			A
最大正向浪涌电流 Peak Surge Forward Current	50HZ 正弦波,一个周期, Tj=25°C 50HZ sine wave,1 cycle, Tj=25°C.		I _{FSM}	120			A
热容值 Rating for fusing	1ms<t<8.3ms,Tj=25°C, 单个二极管 1ms<t<8.3ms,Tj=25°C, Rating of per diode		I ² t	59.7			A ² s
结温 Junction temperature			T _J	-55 ~ +150			°C
存储温度 Storage Temperature			T _{STG}	-55 ~ +150			°C
电性特性 Electrical Characteristics (Ta=25°C Unless otherwise specified)							
正向峰值电压 Peak Forward Voltage	IF=4A, 脉冲测试, 单个二极管的额定值 IF=4A,Pulse measurement, Rate of per diode	Ta=25°C	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	Tj=25°C	I _R	5			μA
		Tj=125°C		500			
热阻 Thermal resistance	结到环境的热阻 Between junction and ambient		R _{θJA}	42			°C/W
	结到引线的热阻 Between junction andlead		R _{θJL}	15			

特性曲线 Characteristic Curve

FIG.1 . Derating Curve For Output Rectified Current

图 1. 电流降额曲线

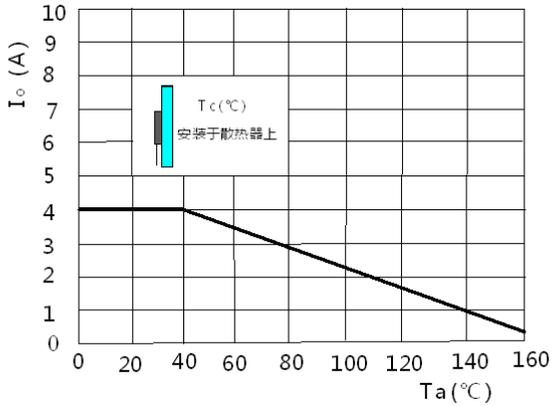


图 2. 最大正向不重复峰值浪涌电流

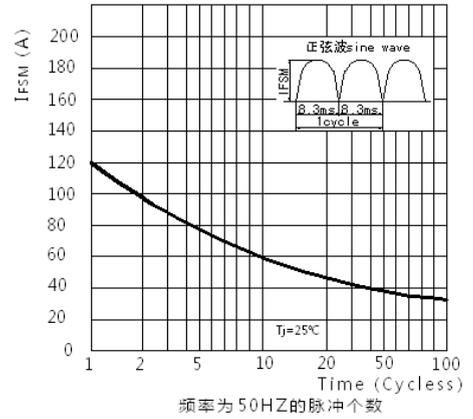


FIG3. Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

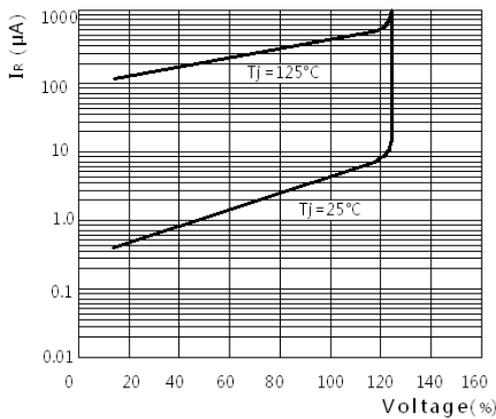
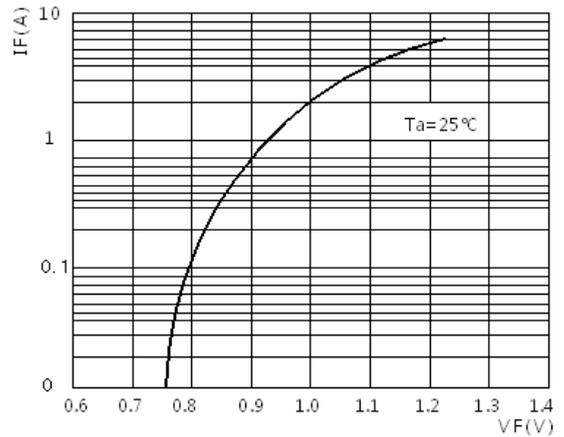


FIG4. Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性



标记图

Marking Diagram

