

3A 单相整流桥

3A Glass Passivated Single-Phase 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 50 安培

High surge current capability to 50 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

ROHS compliance

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

标识/极性：本体标记

Marking / Polarity: Marked on Body

重量：约 1.6 克

Weight: About 1.6 grams

产品适用范围 Product scope of application

家用电器

Household Electric Appliances

工业电源

Industrial power supply

工业自动化设备

Industrial automation equipment

型号Type	V _{RRM} (V)	V _{RSM} (V)
KBP3005	50V	100V
KBP301	100V	200V
KBP302	200V	300V
KBP304	400V	500V
KBP306	600V	700V
KBP308	800V	900V
KBP310	1000V	1100V
KBP312	1200V	1300V

最大额定值 Maximum Ratings and Thermal Characteristics @ Ta = 25°C unless otherwise noted

参数名称 Item	符号 Symbol	参数条件 Conditions		额定值 Rated value	单位 Unit
平均整流输出电流 Average Rectified Output Current	I _o	50Hz 正弦波负载, 50Hz sine wave load	带散热片,T _c =100°C with heatsink,T _c =100°C	3	A
最大正向浪涌电流 Peak Surge Forward Current	I _{fsm}	50HZ 正弦波,一个周期, T _j =25°C 50HZ sine wave,1 cycle, T _j =25°C		50	A
热容值 Rating for fusing	i ² t	1ms<t<8.3ms,T _j =25°C, 单个二极管 1ms<t<8.3ms,T _j =25°C, Rating of per diode		10	A
		1ms<t<10.0ms,T _j =25°C, 单个二极管 1ms<t<10.0ms,T _j =25°C, Rating of per diode		12.5	A
存储温度 Storage Temperature	T _{stg}			-55 ~ +150	°C
结温 Junction Temperature	T _j			-55 ~ +150	°C

电气特性 Electrical Characteristics @ Ta = 25°C unless otherwise noted

参数名称 Item	符号 Symbol	测试条件 Test Conditions	额定值 Rated value	单位 Unit
正向峰值电压 Peak Forward Voltage	V _F	IF=3.0A, 脉冲测试, 单个二极管的额定值 IF=3.0A, Pulse measurement, Rate of per diode	Ta=25°C 1.1	V
反向峰值电流 Peak Reverse Current	I _R	VR=V _{RRM} , 脉冲测试, 单个二极管的额定值 VR=V _{RRM} , Pulse measurement, Rating of per diode	T _j =25°C 10	uA
			T _j =125°C 500	
热阻 Thermal resistance	R _{θJ-A}	结到环境的热阻,无散热片 Junction to ambient, without heatsink	32 ⁽¹⁾	°C/W

备注：

(1) 产品安装于 PCB 板上，不带散热片。

Products installed on the PCB, Without heatsink.

特性曲线 Rating Characteristic

FIG.1 . Derating Curve For Output Rectified Current

图 1. 电流降额曲线

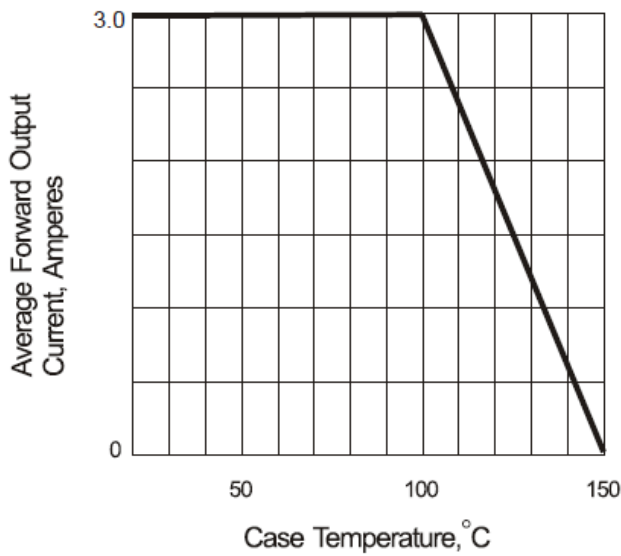


FIG.2 . Maximum Non-Repetitive Peak Orward Surge Current Per Bridge Element

图 2. 最大正向不重复峰值浪涌电流

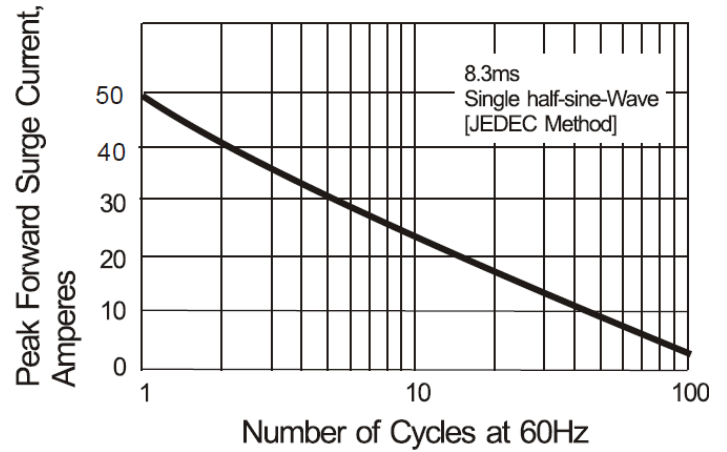


FIG3.Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

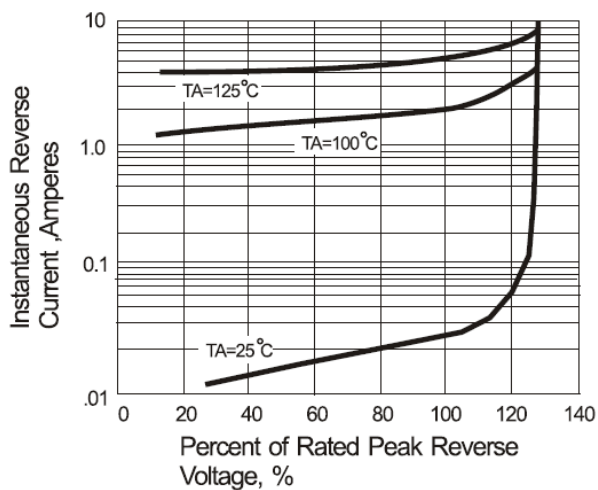
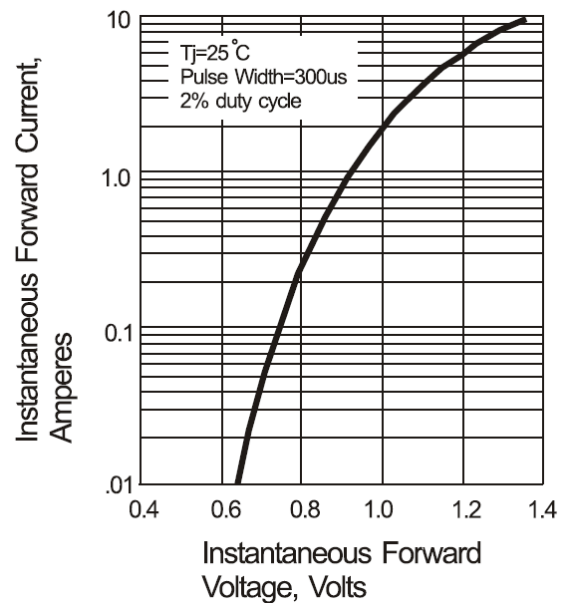


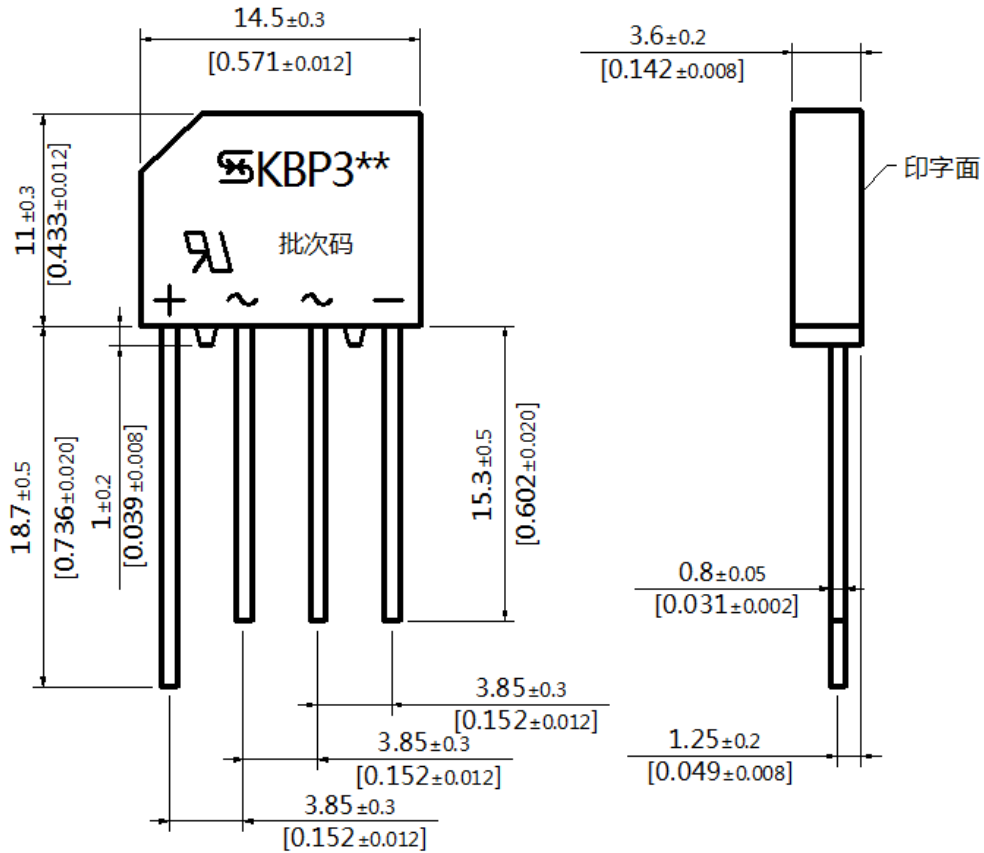
FIG4.Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性




尺寸图

Dimensioned drawing



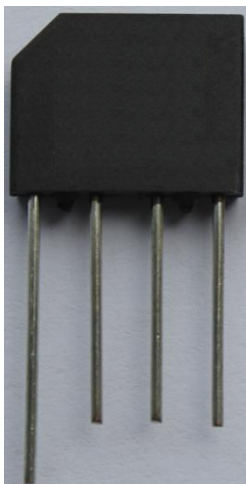
Dimensions in inches (mm)

说明：1、：希尔标志 LOGO。

2、KBP3**：产品型号，KBP 为封装代码，3 为电流 3A，**表示不同的电压值。

外形图

Outside view



线路图

Circuit diagram

