

描述 / Descriptions

SOD-323 塑封封装 肖特基整流二极管。
Schottky Barrier Rectifiers in a SOD-323 Plastic Package.

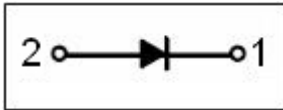
特征 / Features

大电流整流肖特基二极管，低电压，低电感，无卤产品。
High current rectifier Schottky diodes, Low voltage, low inductance, HF Product.

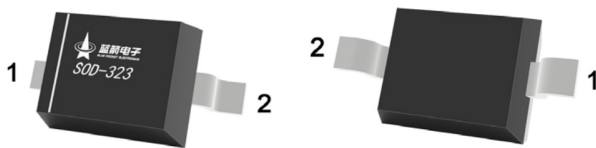
用途 / Applications

一般用途。
General purpose.

内部等效电路 / Equivalent Circuit



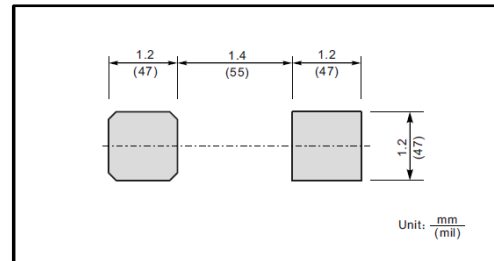
引脚排列 / Pinning



PIN1:Cathode

PIN2:Anode

The recommended mounting pad size



印章代码 / Marking

Type	number
BAT60B	HW5

极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	10	V
Continuous Forward Current	I_F	3	A
Forward Surge Current at 8.3ms	I_{FSM}	20	A
Power Dissipation at $T_c=25^\circ\text{C}$	P_D	350	mW
Operating and Storage Temperature Range	T_J, T_{stg}	-55 ~ +150	$^\circ\text{C}$

电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating	单位 Unit
Maximum Forward Voltage	V_F	$I_F=10\text{mA}$	0.30	V
		$I_F=100\text{mA}$	0.38	
		$I_F=500\text{mA}$	0.50	
		$I_F=1000\text{mA}$	0.60	
Peak Reverse Current	I_R	$V_R=5\text{V}$	15	μA
		$V_R=8\text{V}$	20	
Diodes Capacitance	C_T	$V_R=5\text{V}, f=1\text{MHz}$	30	pF

电参数曲线图 / Electrical Characteristic Curve

Fig.1 Power Derating Curve

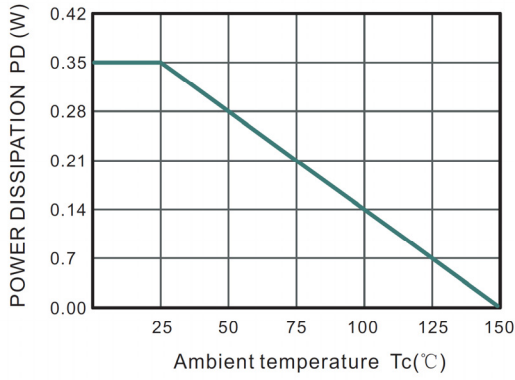


Fig.2 Typical Reverse Characteristics

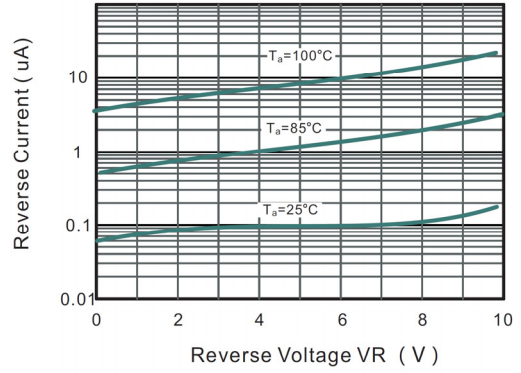


Fig.3 Typical Junction Capacitance

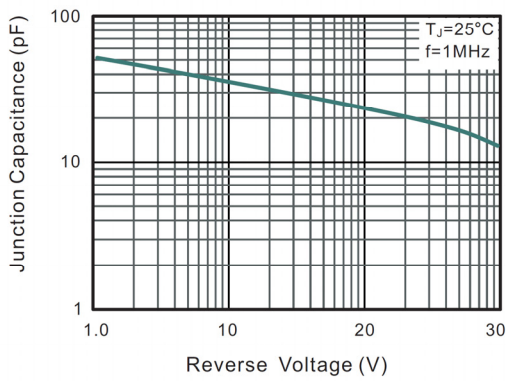


Fig.4 Typical Forward Characteristic

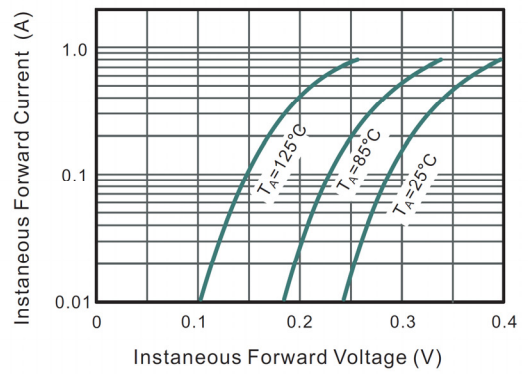
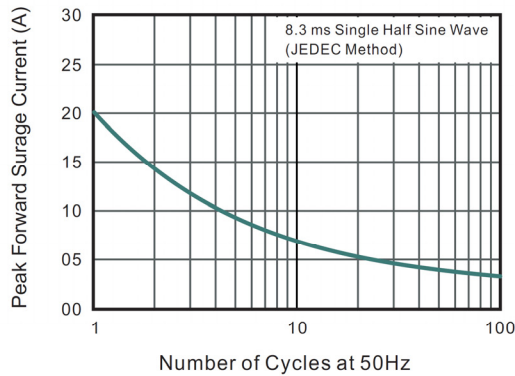
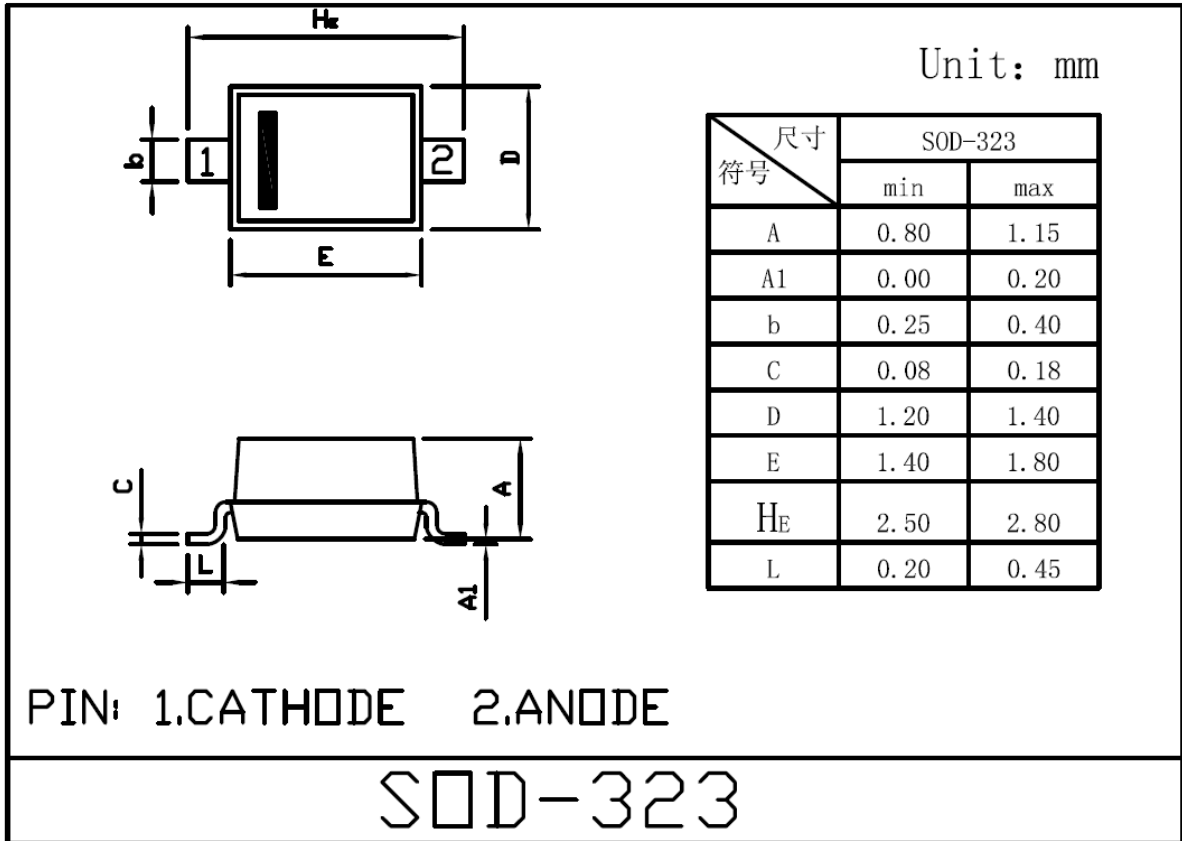


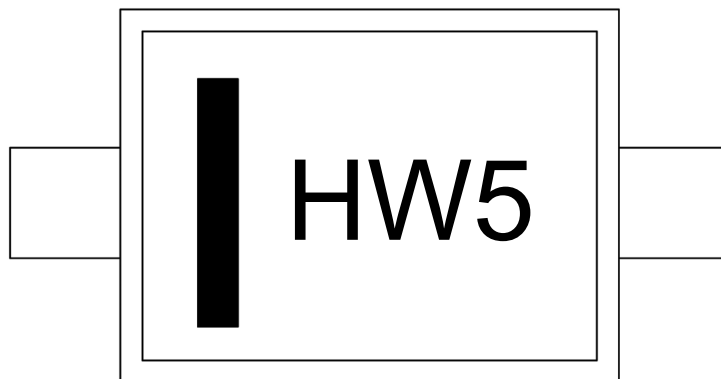
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



外形尺寸图 / Package Dimensions



印章说明 / Marking Instructions



说明：

H： 为公司代码

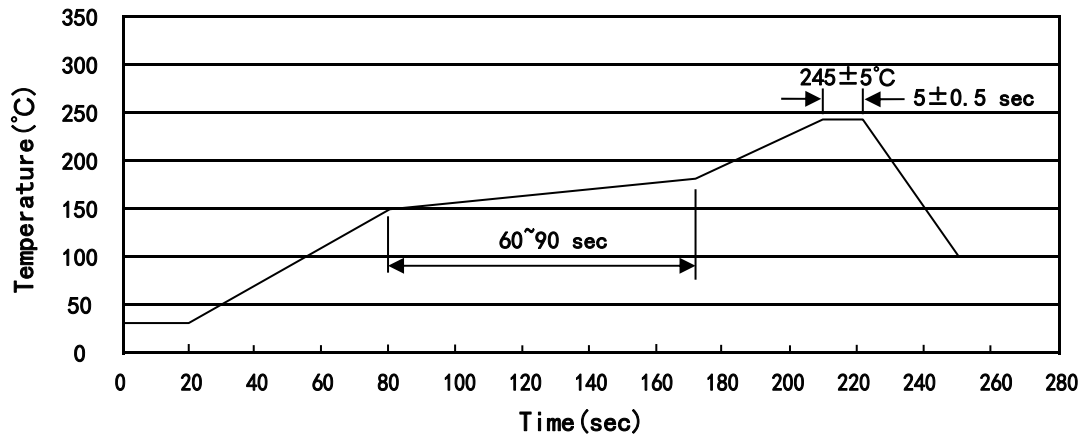
W5： 为型号代码

Note:

H: Company Code

W5: Product Type Code

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)



说明：

- 1、预热温度 150~180°C，时间 60~90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2~10°C/sec.

Note:

- 1.Preheating:150~180°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：260±5°C 时间：10±1 sec. Temp.:260±5°C Time:10±1 sec

包装规格 / Packaging SPEC.

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOD-323	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

使用说明 / Notices