

# B5817WS-B5819WS

Rev.K Mar.-2022

## 描述 / Descriptions

SOD-323 塑封封装肖特基二极管。

Schottky Diode in a SOD-323 Plastic Package.

## 特征 / Features

低正向压降，无卤产品。

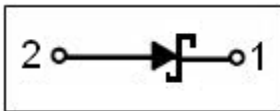
Low positive pressure drop, HF Product.

## 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

## 印章代码 / Marking

Model	B5817WS	B5818WS	B5819WS
Marking	HSJ	HSK	HSL

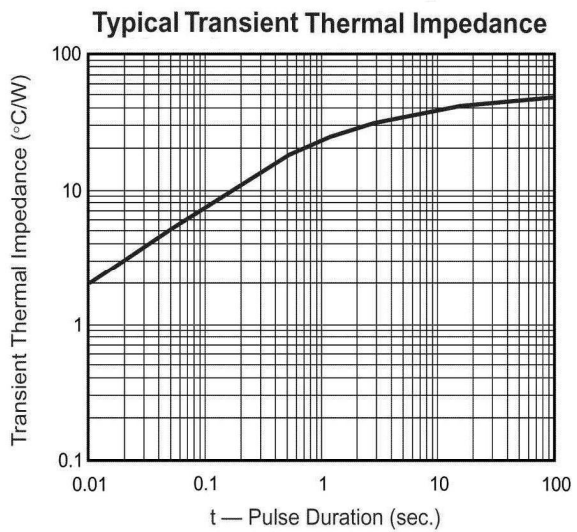
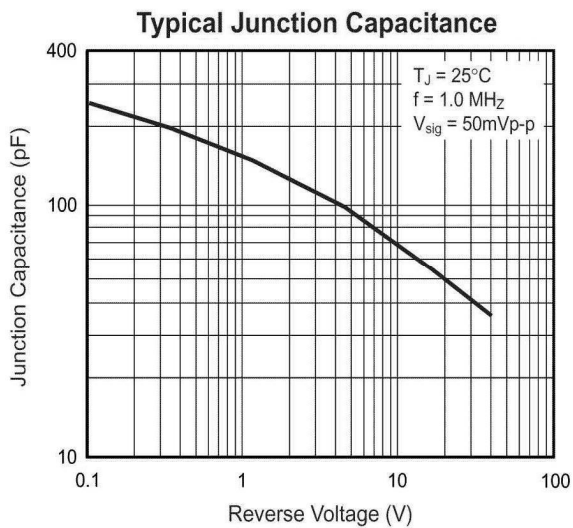
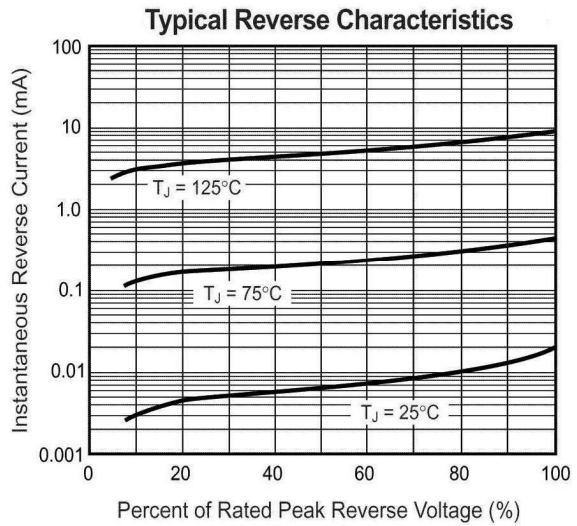
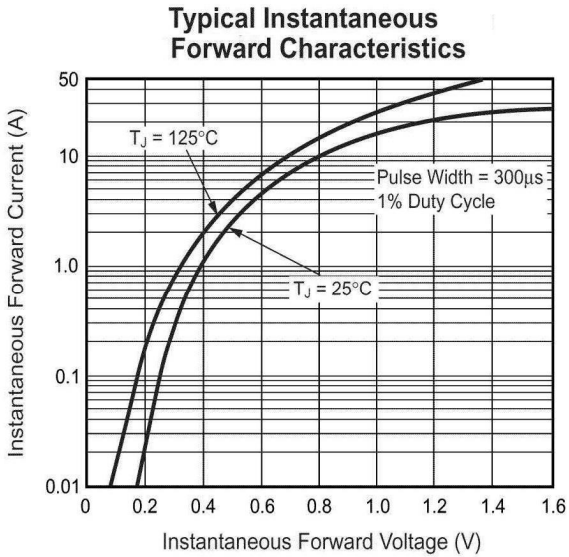
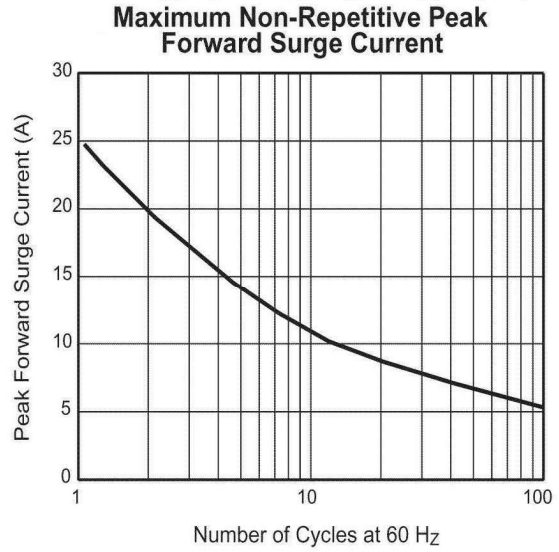
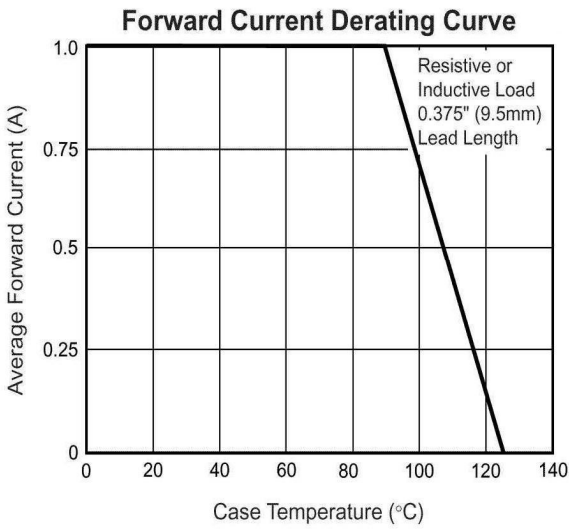
**极限参数 / Absolute Maximum Ratings(Ta=25°C)**

参数 Parameter	符号 Symbol	数值 Rating			单位 Unit
		B5817WS	B5818WS	B5819WS	
Peak Repetitive Reverse Voltage , Working Peak Reverse Voltage, DC Reverse Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average Rectified Forward Current	$I_F$	1			A
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	25			A
Power Dissipation	$P_d$	200			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			°C/W
Junction and Storage Temperature Range	$T_J, T_{stg}$	-65 to 125			°C

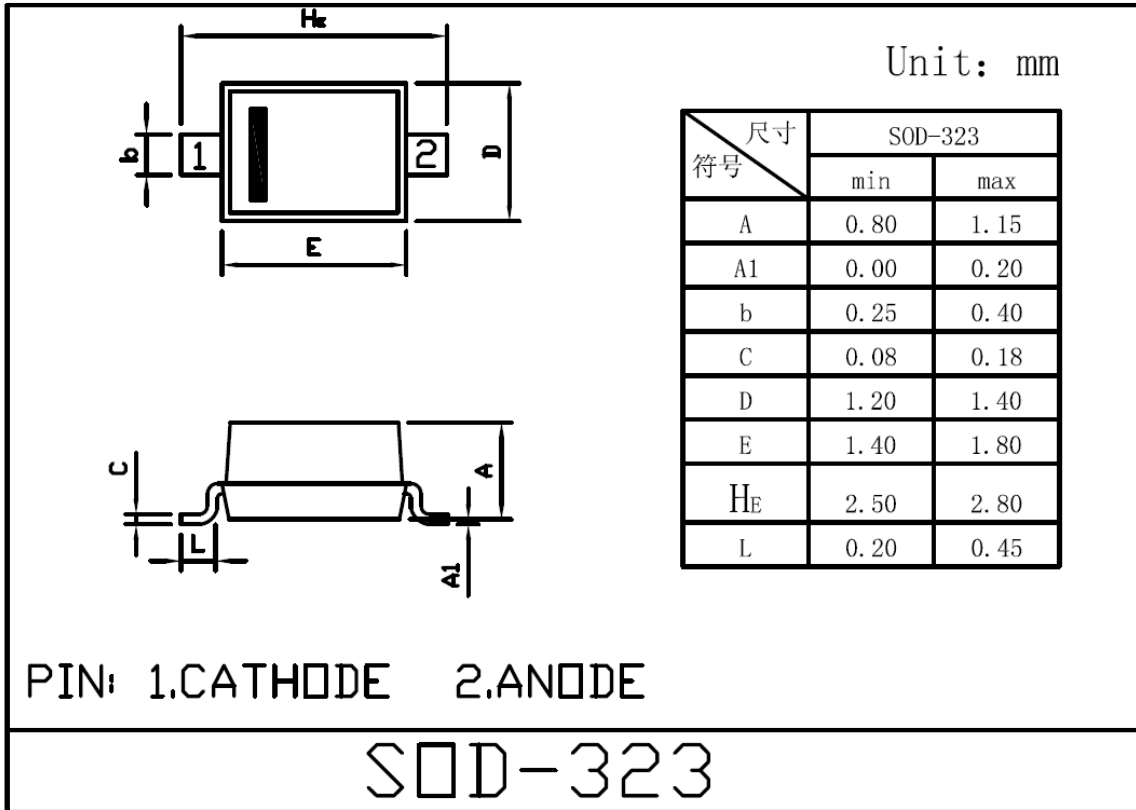
**电性能参数 / Electrical Characteristics(Ta=25°C)**

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating		单位 Unit
			MIN	MAX	
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1mA$	B5817WS	20	V
			B5818WS	30	
			B5819WS	40	
Peak Forward Voltage	$V_{FM}$	$I_F=0.1A$	B5817WS	0.32	V
			B5818WS	0.35	
			B5819WS	0.4	
		$I_F=1A$	B5817WS	0.45	
			B5818WS	0.55	
			B5819WS	0.60	
		$I_F=3A$ ( $t<5\mu s$ )	B5817WS	0.75	
			B5818WS	0.875	
			B5819WS	0.90	
Instantaneous Reverse Current	$I_{RM}$	$V_R=V_{RWM}$	1		mA
Junction Capacitance	$C_J$	$V_R=4V$ $f=1.0MHz$	120		pF

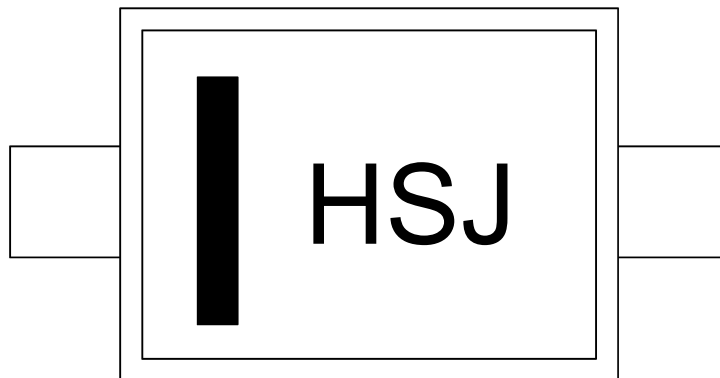
**电参数曲线图 / Electrical Characteristic Curve**



外形尺寸图 / Package Dimensions



印章说明 / Marking Instructions



说明：

H： 为公司代码

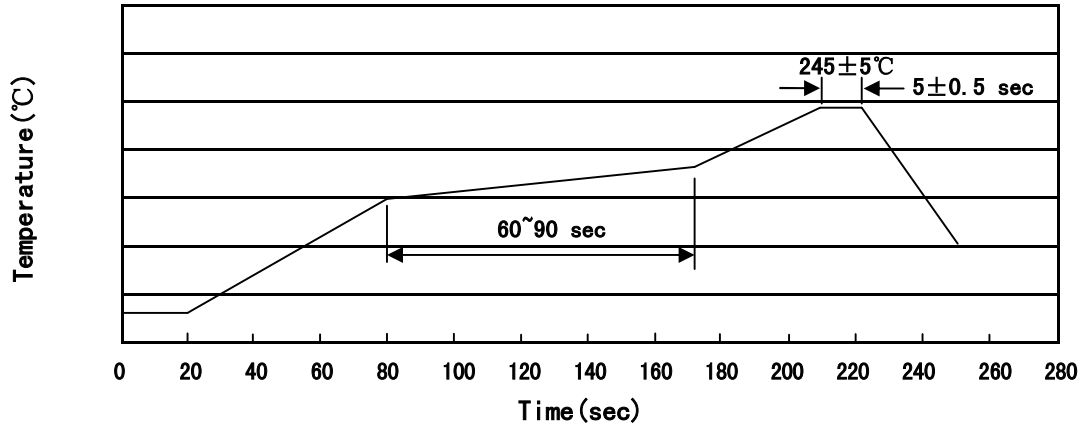
SJ： 为型号代码

Note:

H: Company Code

SJ: Product Type

**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  $150 \sim 180^\circ\text{C}$ ，时间  $60 \sim 90\text{sec}$ ；
- 2、峰值温度  $245 \pm 5^\circ\text{C}$ ，时间持续为  $5 \pm 0.5\text{sec}$ ；
- 3、焊接制程冷却速度为  $2 \sim 10^\circ\text{C}/\text{sec}$ 。

Note:

- 1.Preheating: $150 \sim 180^\circ\text{C}$ , Time: $60 \sim 90\text{sec}$ .
- 2.Peak Temp.: $245 \pm 5^\circ\text{C}$ , Duration: $5 \pm 0.5\text{sec}$ .
3. Cooling Speed:  $2 \sim 10^\circ\text{C}/\text{sec}$ .

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

温度： $260 \pm 5^\circ\text{C}$

时间： $10 \pm 1 \text{ sec}$ 。

Temp.: $260 \pm 5^\circ\text{C}$

Time: $10 \pm 1 \text{ sec}$

**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 <sup>3</sup> )		
	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**