

/ Revised record

I	2018-8-6	2	VF@IF=3A t<5us		
J	2019-2-17	2	B5818WS 修改 VF@IF=3A 时的最大值为 0.875, B5819WS 修改 VF@IF=1A 时的最大值为 0.6 及 B5817WS、B5818WS 和 B5819WS 修改 VBR 的测试条件为 IR=1mA		
K	2022-3-26	1			

B5817WS-B5819WS

Rev.K Mar.-2022



DATA SHEET

/ Descriptions

SOD-323

Schottky Diode in a SOD-323 Plastic Package.

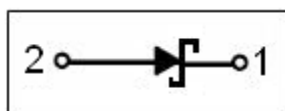
/ Features

Low positive pressure drop, HF Product.

/ Applications

General purpose.

/ Equivalent Circuit



/ Pinning



PIN1:Cathode

PIN2:Anode

/ Marking

Model	B5817WS	B5818WS	B5819WS
Marking	HSJ	HSK	HSL

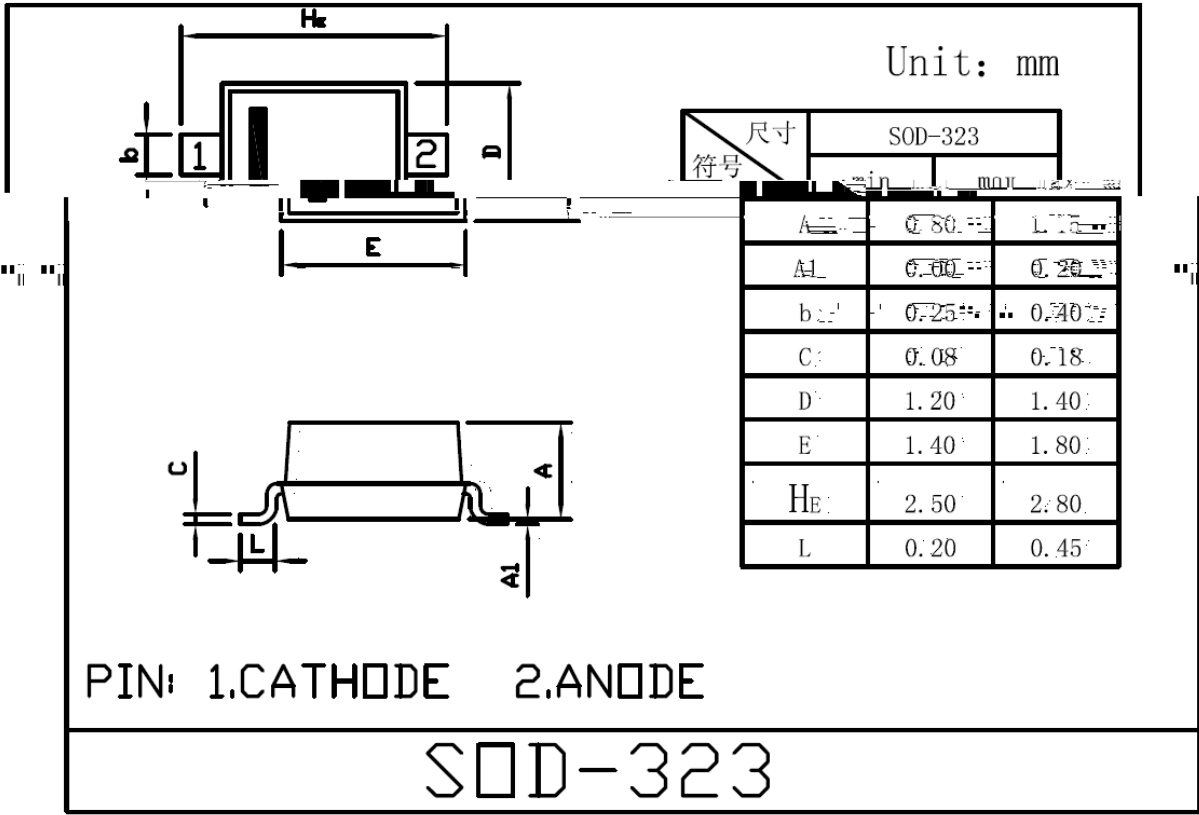
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating			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

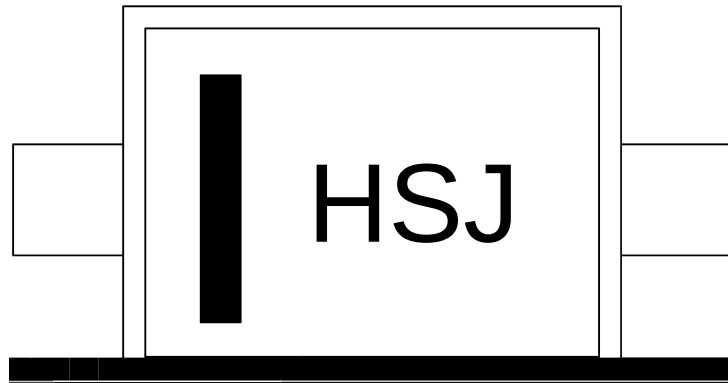
/ Electrical Characteristics(Ta=25)

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

/ Package Dimensions



/ Marking Instructions



H

SJ

Note:

H: Company Code

SJ: Product Type



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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.

/ Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ Packaging SPEC.

卷盘包装 / REEL

Package Type	Units					Dimension (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	Outer Box
SOD-323	3,000	10	30,000	6	180,000	7" x8	180×120×180	390×385×205