

**描述 / Descriptions**

SOD-323 塑封封装 肖特基二极管。  
Schottky Diode in a SOD-323 Plastic Package.

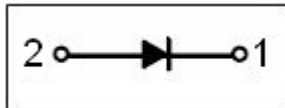
**特征 / Features**

低正向压降，无卤产品。  
Low positive pressure drop, HF Product.

**用途 / Applications**

肖特基二极管。  
Schottky diode.

**内部等效电路 / Equivalent Circuit**

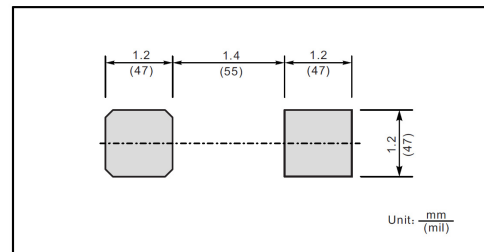


**引脚排列 / Pinning**



PIN1:Cathode      PIN2:Anode

The recommended mounting pad size



**放大及印章代码 / h<sub>FE</sub> Classifications & Marking**

Model	RB551V-40
Marking	D4

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

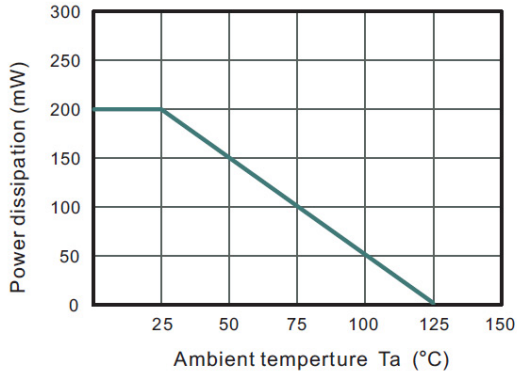
参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Maximum recurrent peak reverse voltage	$V_{RM}$	40	V
Continuous forward current	$I_O$	500	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	25	A
Total power dissipation	$P_D$	200	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	400	°C/W
Junction Temperature	$T_j$	125	°C
Storage Temperature	$T_{stg}$	-55 ~ +150	°C

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

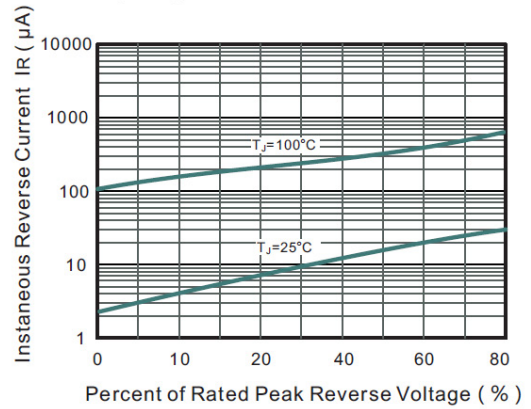
参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating	单位 Unit
Maximum Forward Voltage	$V_F$	$I_F=0.5A$	0.47	V
Reverse Leakage Current	$I_R$	$V_R=40V$	0.1	mA

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

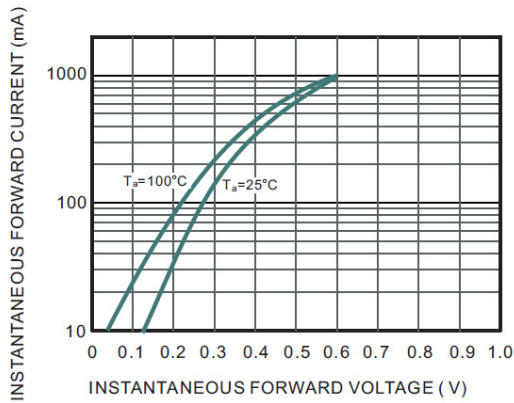
**Fig.1 Power Derating Curve**



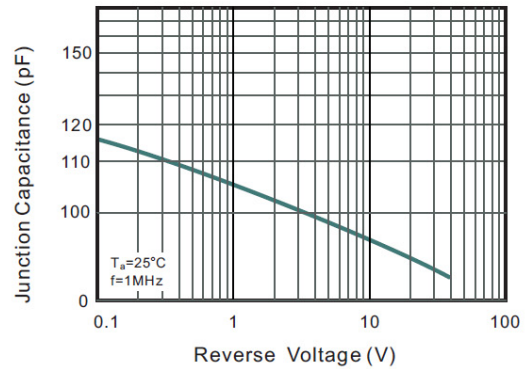
**Fig.2 Typical Reverse Characteristics**



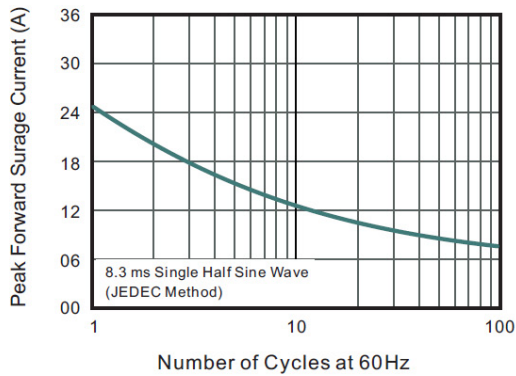
**Fig.3 TYPICAL FORWARD VOLTAGE**



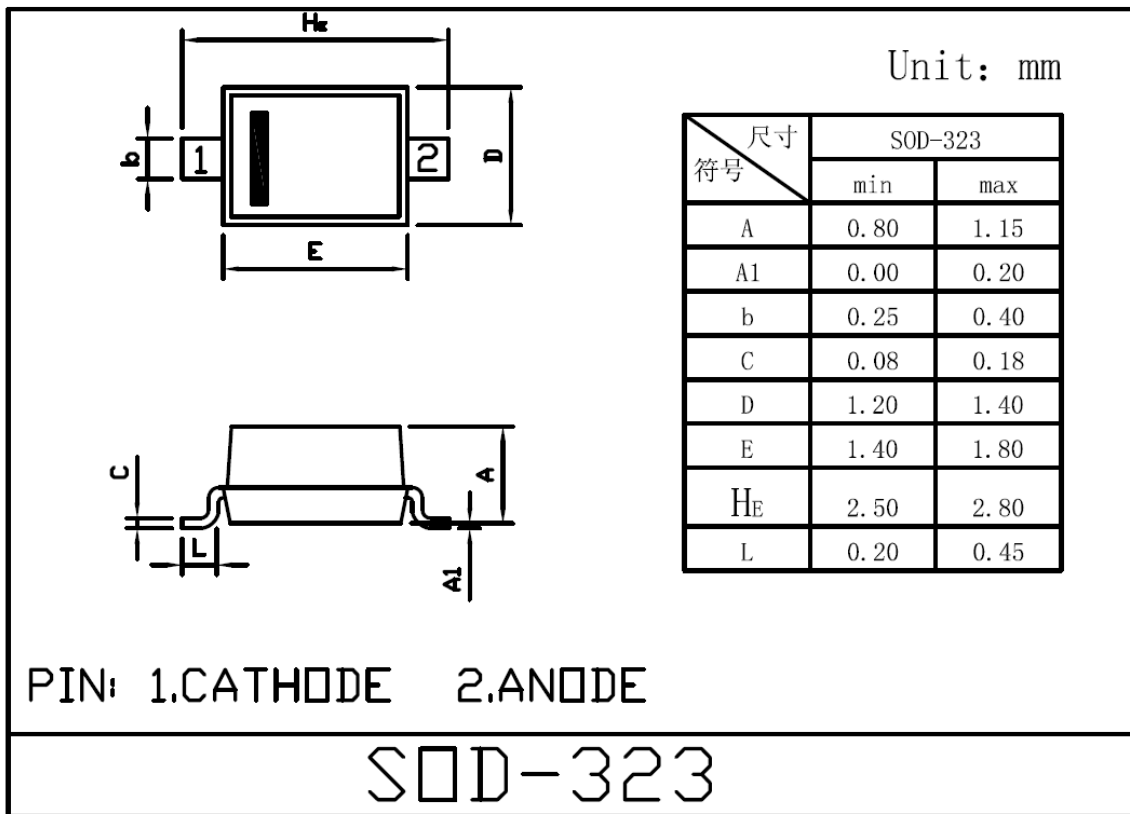
**Fig.4 Typical Junction Capacitance**



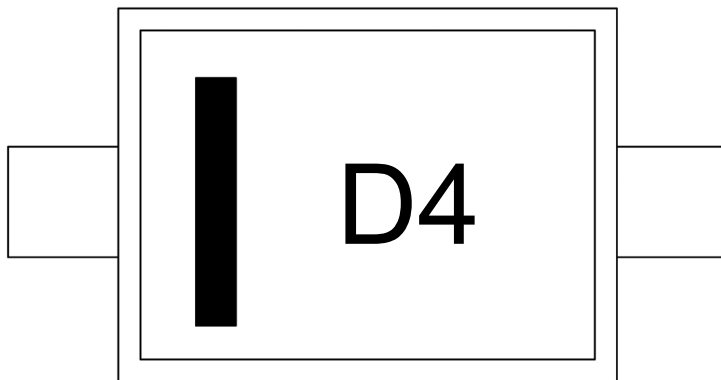
**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



外形尺寸图 / Package Dimensions



印章说明 / Marking Instructions



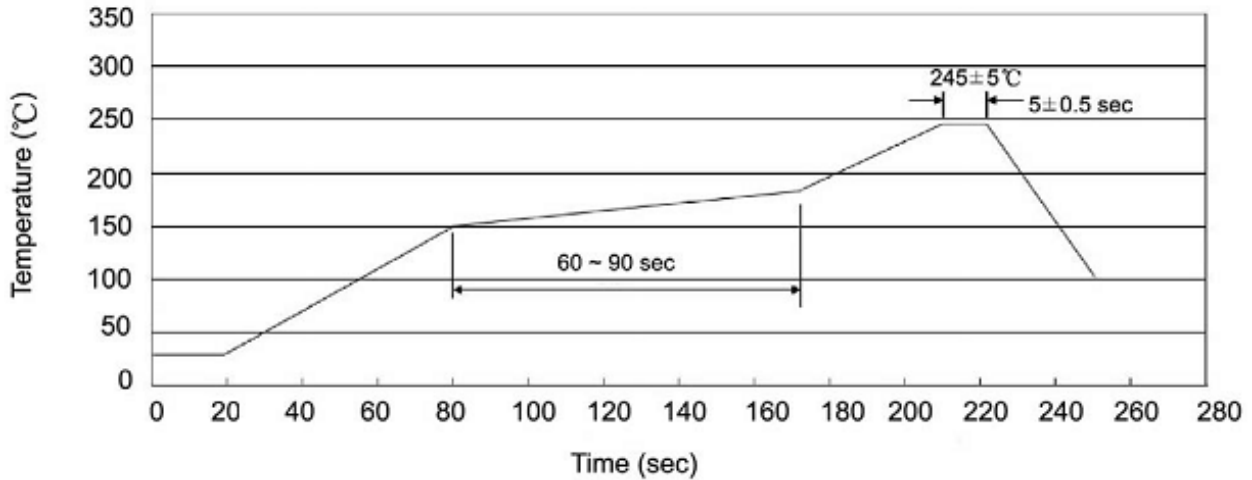
说明：

D4： 为型号代码

Note:

D4: 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 ~ 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 <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**