

RB521S-30

Rev.D Dec.-2024

描述 / Descriptions

SOD-523 塑封封装 肖特基二极管。

Schottky Diode in a SOD-523 Plastic Package.

特征 / Features

低正向电压降，无卤产品。

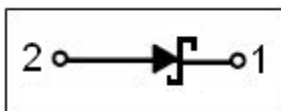
Low forward voltage drop, HF Product.

用途 / Applications

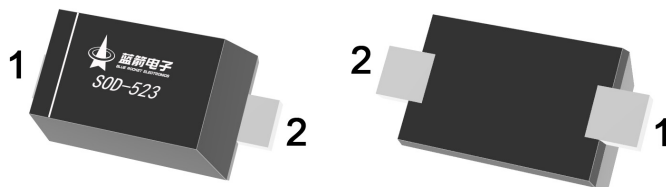
一般用途。

General purpose.

内部等效电路 / Equivalent Circuit



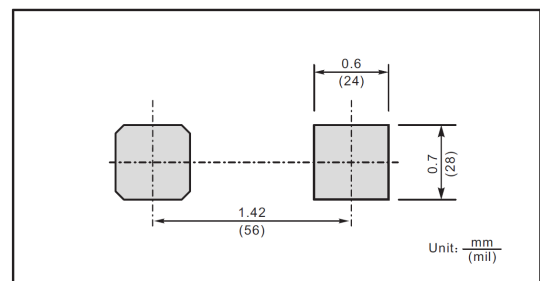
引脚排列 / Pinning



PIN1: Cathode

PIN2: Anode

The recommended mounting pad size



印章代码 / Marking

Type number	Marking code
RB521S-30	C

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

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Reverse Voltage	V _R	30	V
Forward Continuous Current	I _F	200	mA
Non-Repetitive Peak Forward Surge Current @t = 8.3ms	I _{FSM}	1	A
Power dissipation	P _D	200	mW
Junction Temperature	T _J	125	°C
Storage Temperature	T _{stg}	-55 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	Typ	Max	
Reverse Breakdown Voltage	V _{BR}	I _R =500μA	30			V
Forward Voltage	V _F	I _F =20mA			0.37	V
		I _F =200mA			0.60	V
Peak Reverse Current	I _R	V _R =10V			5.0	μA

电参数曲线图 / Electrical Characteristic Curve

Fig.1 Power Derating Curve

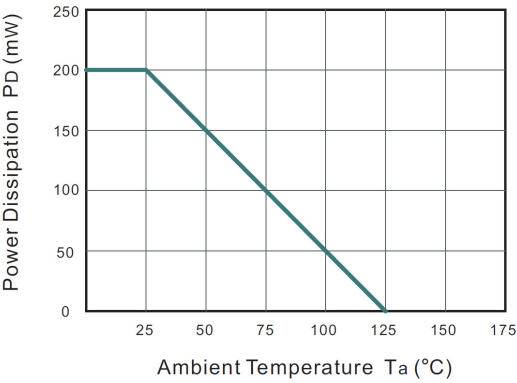


Fig.2 Typical Instaneous Reverse Characteristics

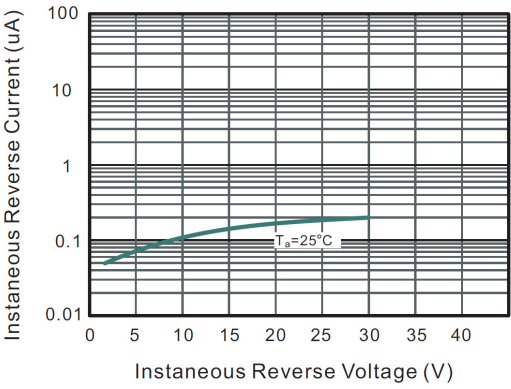
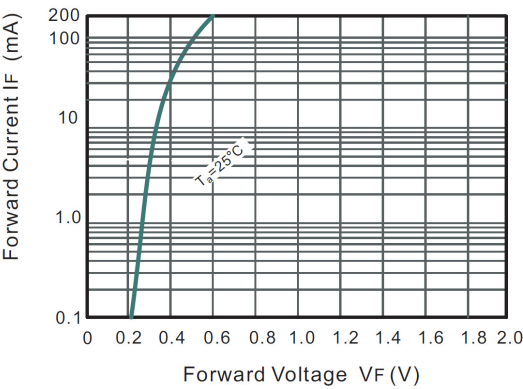
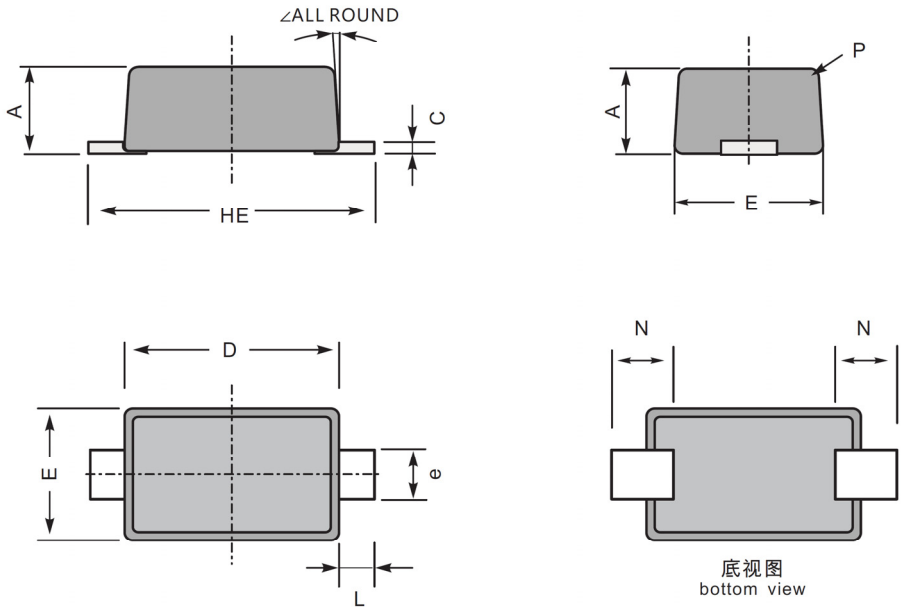


Fig.3 Typical Forward Characteristic



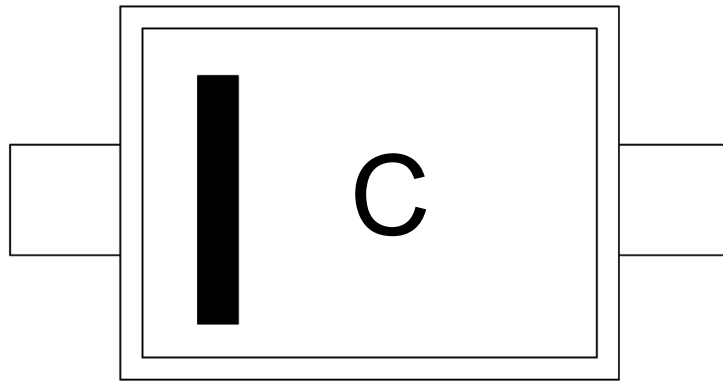
外形尺寸图 / Package Dimensions

SOD-523



UNIT		A	e	C	D	E	HE	N	L	P	∠
mm	max	0.77	0.35	0.15	1.30	0.99	1.70	0.35 ref	0.2 ref	R0.1 ALL ROUND	10° ±1°
	min	0.51	0.25	0.08	1.10	0.75	1.50				
mil	max	30	14	6	51	39	67	14 ref	8.0 ref	R4.0 ALL ROUND	
	min	20	10	3	43	30	59				

印章说明 / Marking Instructions



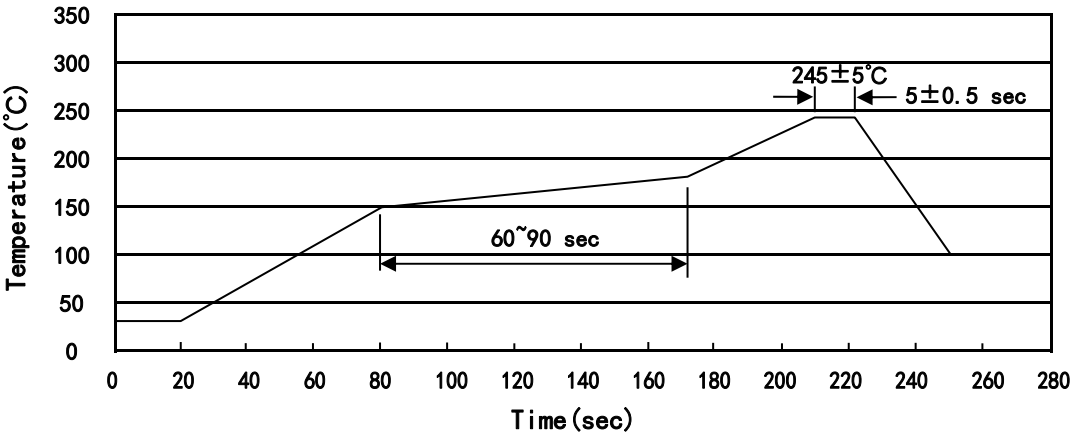
说明：

C： 为型号代码

Note:

C： 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℃，时间 60 ~ 90sec;
 - 2、峰值温度 245±5℃，时间持续为 5±0.5sec;
 - 3、焊接制程冷却速度为 2 ~ 10℃/sec.
- Note:

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

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

温度：260±5℃ 时间：10±1 sec. Temp.:260±5℃ 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-523	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

使用说明 / Notices