

SOD-523
SOD-523 贴片塑封肖特基二极管
SOD-523 Plastic-Encapsulate Schottky Barrier Diode
特征 Features

- High Current Capability
- Low Forward Voltage Drop
- High Speed Switching

机械数据 Mechanical Data

- SOD-523 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Marking:


极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

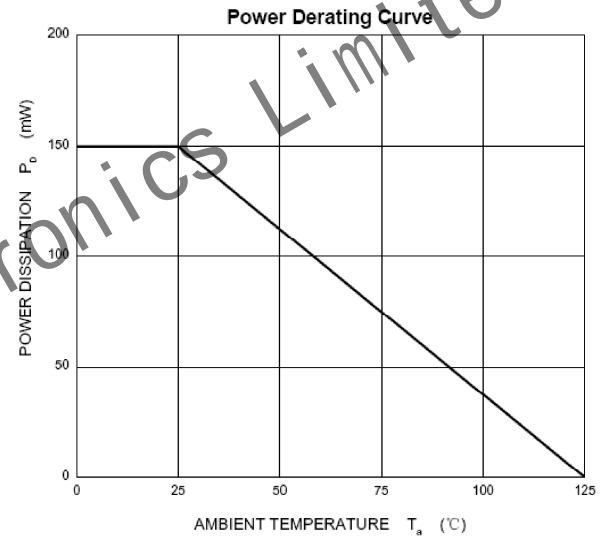
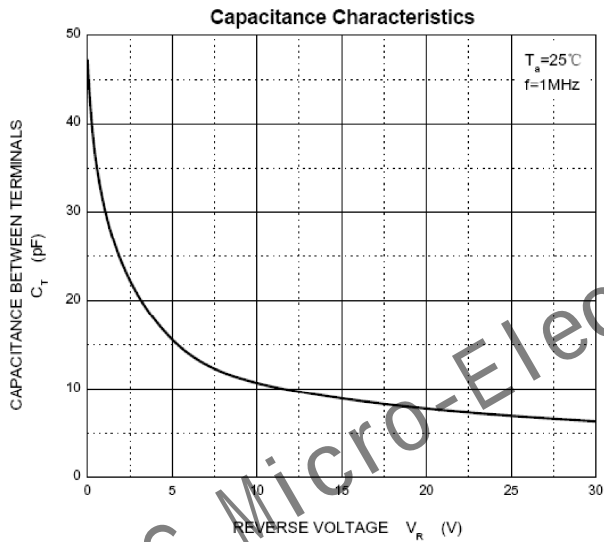
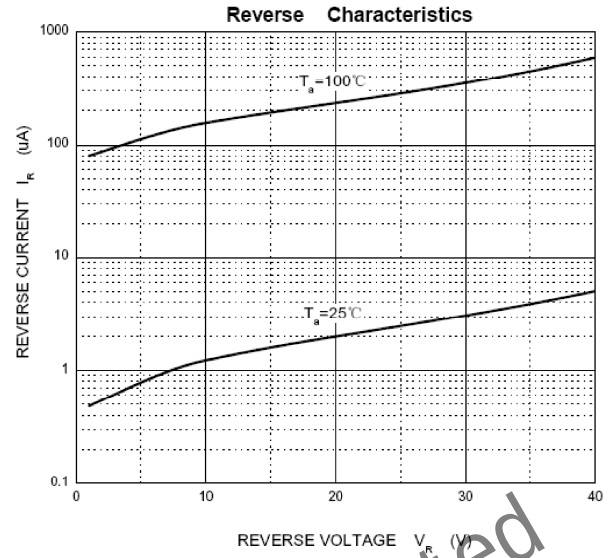
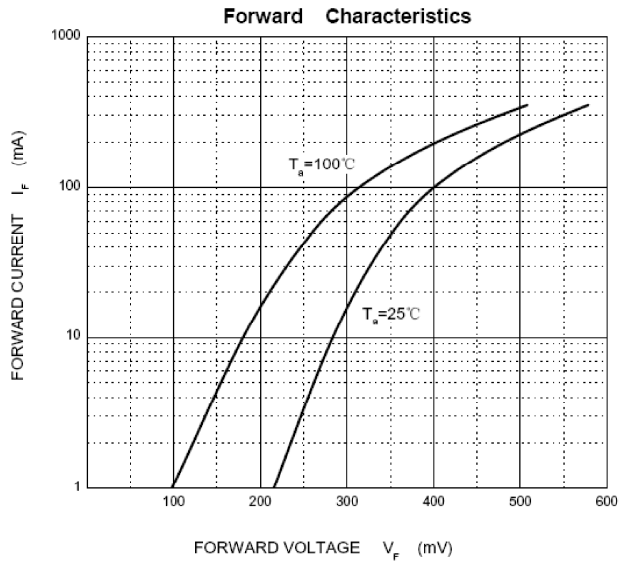
参数 Parameters	符号 Symbol	Value	单位 Unit
DC blocking voltage	VR	10	V
Continuous forward current	IO	100	mA
Peak forward current	IFM	200	mA
Peak forward surge current 8.3 ms single half sine-wave	IFSM	1	A
Power Dissipation	PD	150	mW
typical thermal resistance	RθJA	667	℃/W
Operating junction temperature	Tj	125	℃
Storage temperature range	TSTG	-50-+150	℃

电特性 (TA = 25℃ 除非另有规定)

Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

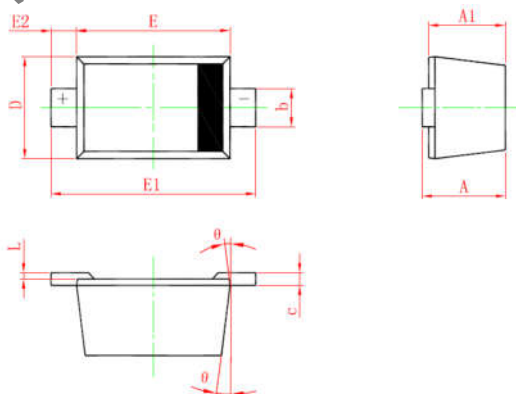
参数 Parameters	符号 Symbol	测试条件 Test conditions	Min	TYP	Max	单位 Unit
Maximum forward voltage	VF	IF = 1mA IF = 5mA IF = 100mA			0.28 0.32 0.50	V
Maximum reverse breakdown voltage	VR	IR=100uA	10			V
Maximum reverse current	IR	VR=10V			2	uA
Total capacitance	Ctot	VR =0V, f = 1MHz			50	pF

特性曲线Characteristic Curves



SOD-523 PACKAGE OUTLINE

Plastic surface mounted package



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.380	0.010	0.015
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	