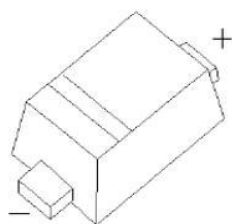




SOD-523

**MARKING: L4****Features**

- 50nS; Fast Switching Device (TRR <50nS)
- 325mW; Power Dissipation of 325mW
- High Stability and High Reliability
- Low reverse leakage

Mechanical Data

- SOD-523 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

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

Parameters	Symbol	Value	Unit
		BAS521	
Reverse Voltage	VR	300	V
Peak Reverse Voltage	VRM	300	V
Power Dissipation	Pd	325	mW
Operating junction temperature	Tj	150	°C
Storage temperature range	Ts	-65-+150	°C
Working Inverse Voltage	WIV	75	V
Average Rectified Current	IO	250	mA
Non-repetitive Peak Forward Current	IFM	625	mA
Peak Forward Surge Current @tp=1ms; TA=25°C	IFSM	4.5	A

Valid provided that electrodes are kept at ambient temperature.

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

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
VRB	Reverse Voltage	IR=100uA	300	---	V
IR	Reverse Leakage Current	VR=250V	---	0.15	uA
VF	Forward Voltage	IF=100mA	---	1.10	V
		IF=200mA	---	1.30	
TRR	Reverse Recovery Time	IF= 30mA, IR=30mA RL=100Ω IRR=3mA	---	50	nS
C	Capacitance	VR=0V, f=1MHZ	---	5	pF

Dated: 2014-2-24

Characteristic Curves

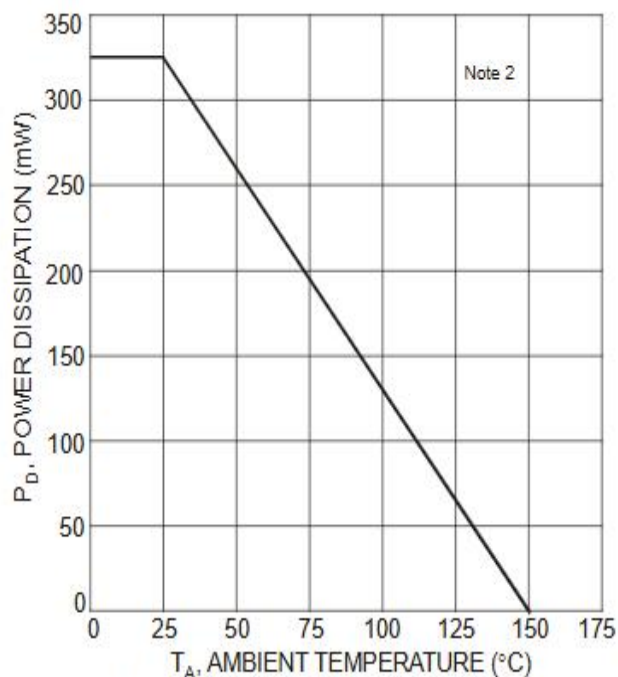


Fig. 1 Power Derating Curve, Total Package

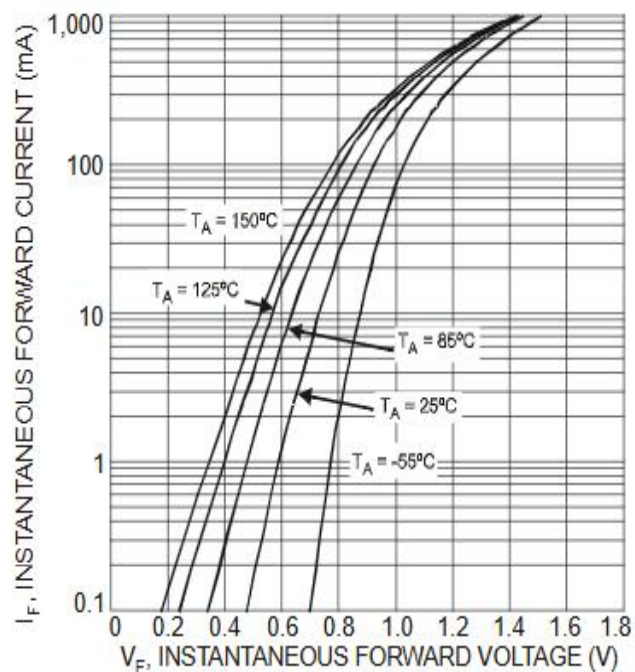


Fig. 2 Typical Forward Characteristics, Per Element

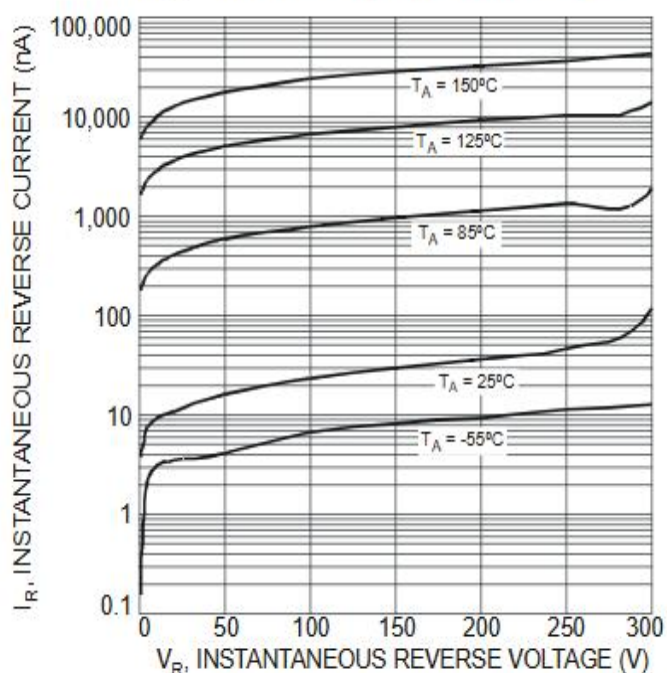


Fig. 3 Typical Reverse Characteristics, Per Element

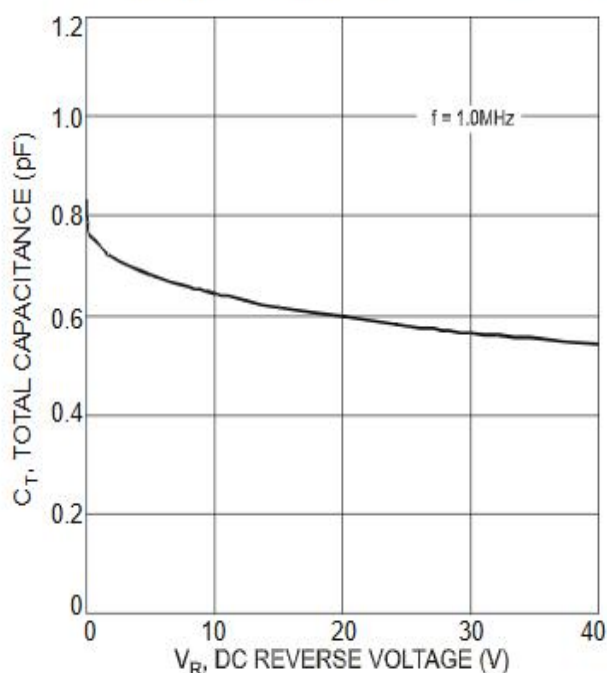
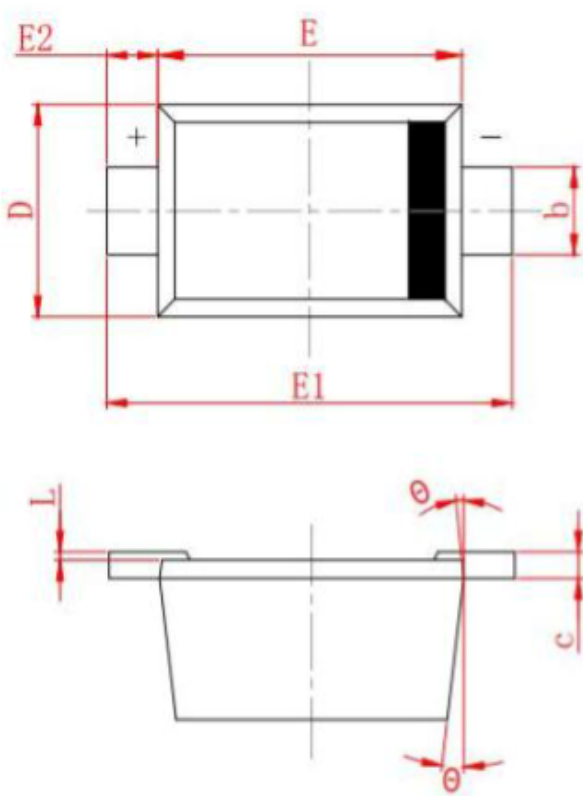


Fig. 4 Total Capacitance vs. Reverse Voltage, Per Element



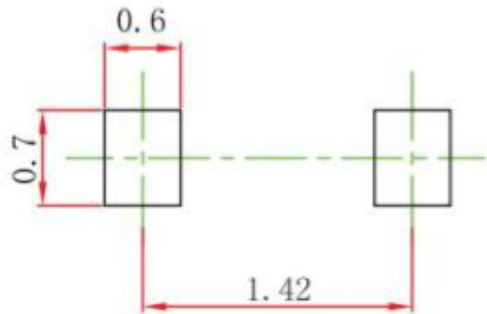
SOD-523 PACKAGE OUTLINE

Plastic surface mounted package



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.530	0.730
A1	0.500	0.700
b	0.280	0.380
c	0.080	0.150
D	0.750	0.850
E	1.100	1.300
E1	1.500	1.700
E2	0.200 REF	
L	0.010	0.070
θ	7° REF	

SOD-523 Suggested Pad Layout



- Note:
- 1.Controlling dimension:in millimeters.
 - 2.General tolerance:± 0.05mm.
 - 3.The pad layout is for reference purposes only.