

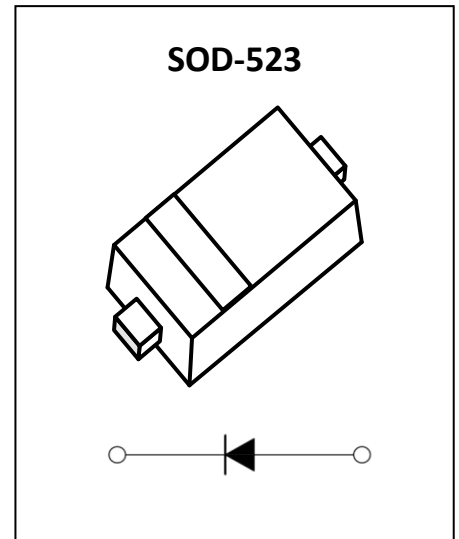


BAS516 Switching Diode

Feature

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

MARKING:



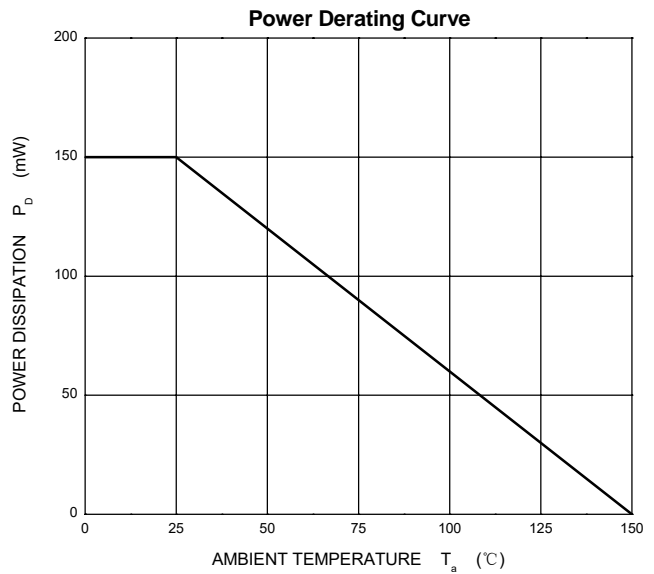
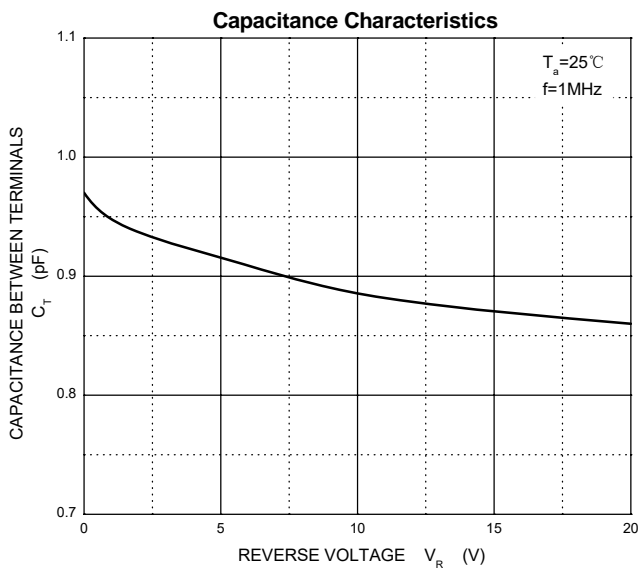
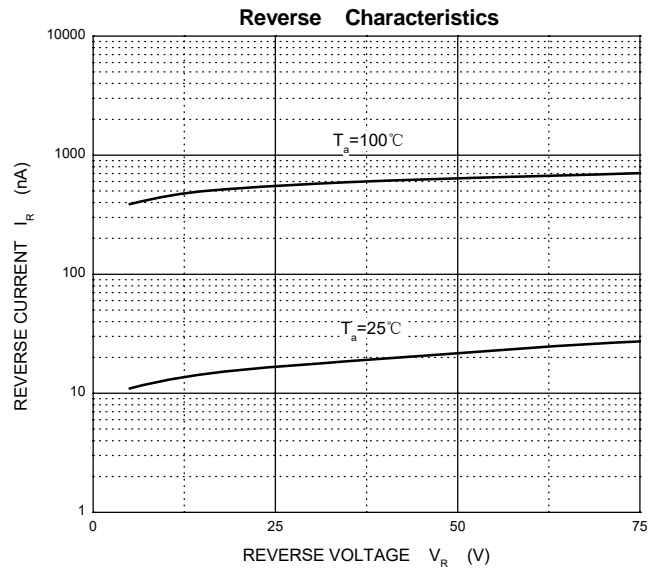
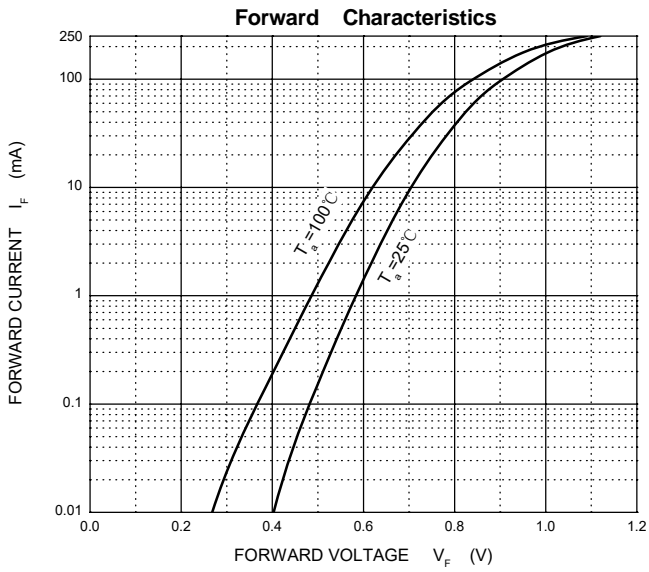
ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak reverse voltage	V_{RRM}	75	V
Repetitive Peak Forward Surge Current	I_{FRM}	0.5	A
Forward Forward Current	I_F	0.25	A
Power Dissipation	P_D	150	mW
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

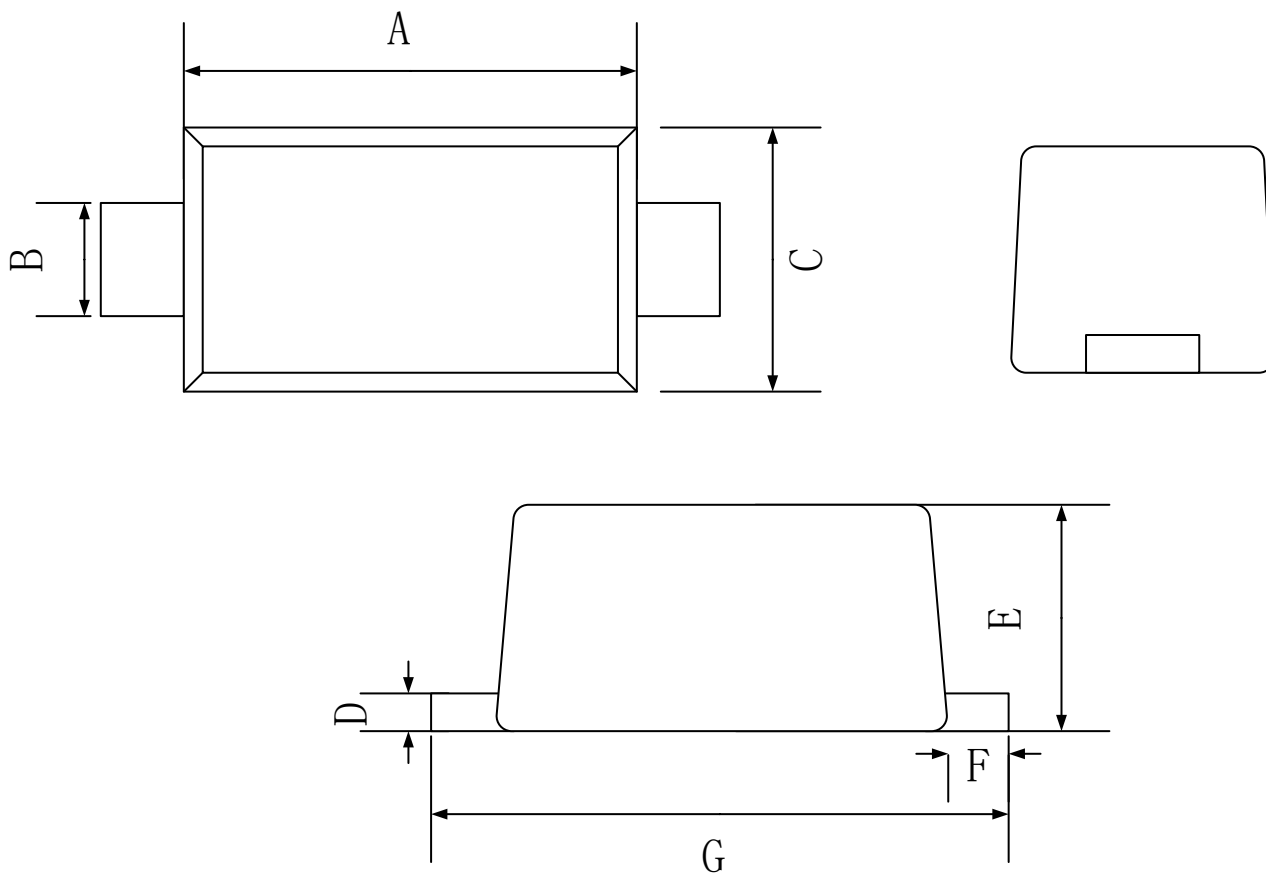
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	$I_R = 100\mu\text{A}$	100			V
Forward voltage	V_F	$I_F = 1\text{m}$			0.715	V
		$I_F = 10\text{mA}$			0.855	V
		$I_F = 50\text{mA}$			1	V
		$I_F = 150\text{mA}$			1.25	V
Reverse current	I_R	$V_R = 25\text{V}$			30	nA
		$V_R = 75\text{V}$			1	μA
Diode Capacitance	C_D	$V_R = 0\text{V}, f = 1\text{MHz}$			2	pF
Reverse Recovery Time	T_{RR}	$I_F = 10\text{mA}, V_R = 0\text{V}, I_R = 10\text{mA}, R_L = 100\Omega$			4	ns

Typical Characteristics

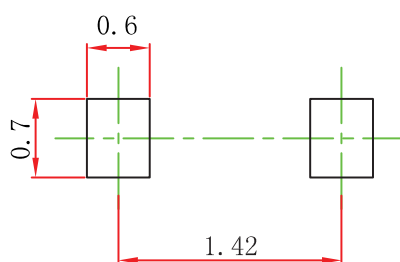


SOD-523 Package Outline Dimensions



Symbol	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	1.10	1.20	1.30
B	0.25	0.30	0.35
C	0.75	0.80	0.85
D	0.08	0.10	0.15
E	0.45	0.65	0.70
F	0.20 REF		
G	1.50	1.60	1.70

SOD-523 Suggested Pad Layout



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