



BAS70WS

Small Signal Schottky Diode

Features

- Low forward voltage drop
- High breakdown voltage
- Guard ring protected
- Low capacitance

Marking: SX

Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Continuous Forward Current	I_F	70	mA
Surge Non-Repetitive Forward Current@10ms	I_{FSM}	1	A
Total Power Dissipation	P_{tot}	230	mW
Thermal Resistance Junction to Ambient ⁽¹⁾	$R_{\theta JA}$	550	$^{\circ}\text{C}/\text{W}$
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55~+150	$^{\circ}\text{C}$

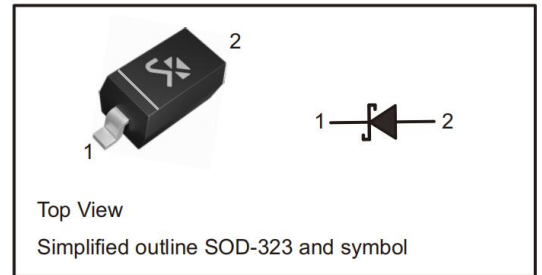
Note: (1) Mounted on epoxy board, with recommended pad layout.

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	Min	Max	Unit
Reverse Breakdown Voltage	V_{BR}	$I_R=10\mu\text{A}$	70	-	V
Forward Voltage	V_F	$I_F=1\text{mA}$	-	410	mV
Reverse Current	I_R	$V_R=50\text{V}$	-	100	nA
Diode Capacitance	C_{tot}	$V_R=0\text{V}, f=1\text{MHz}$	-	2	pF

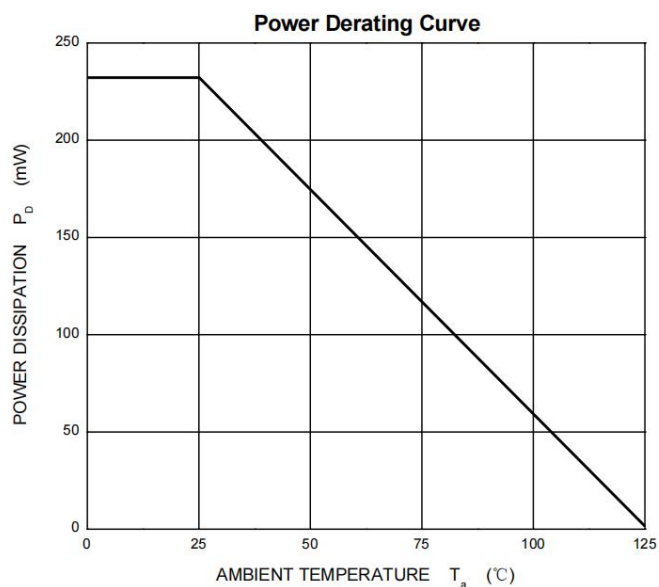
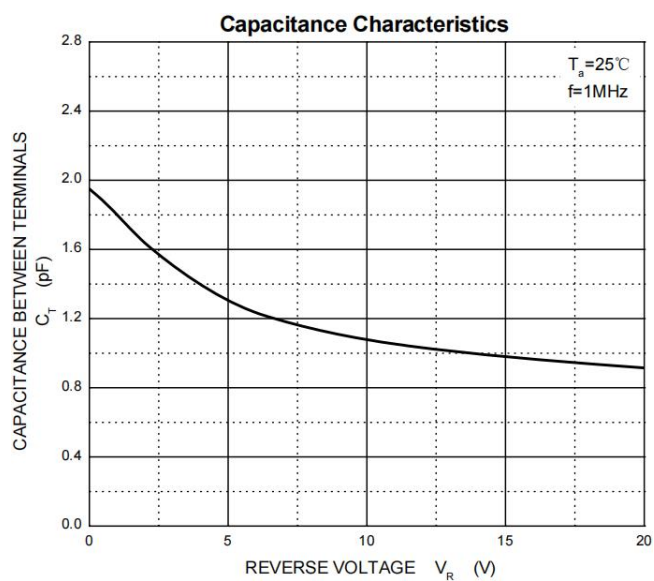
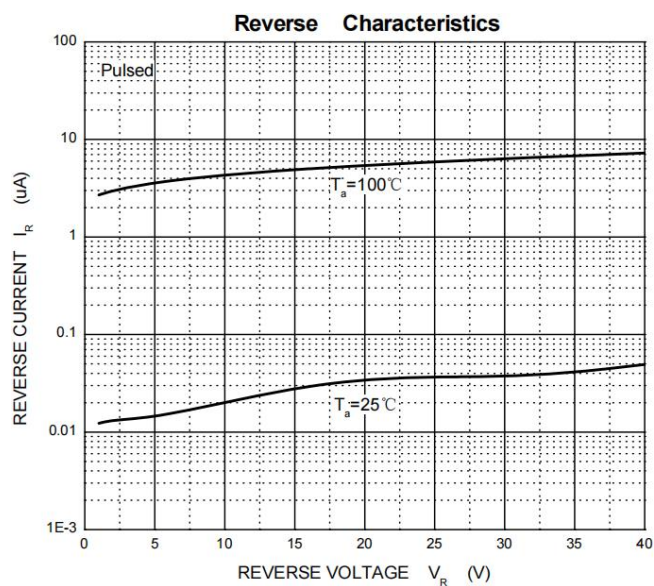
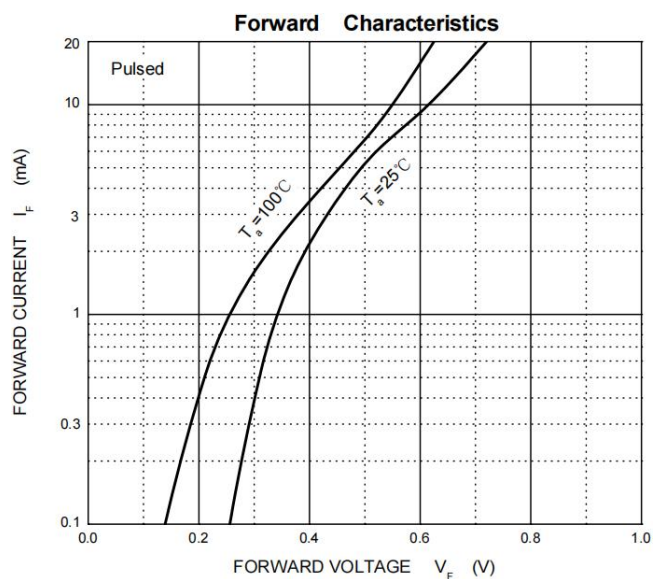
PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode





Typical Characteristic

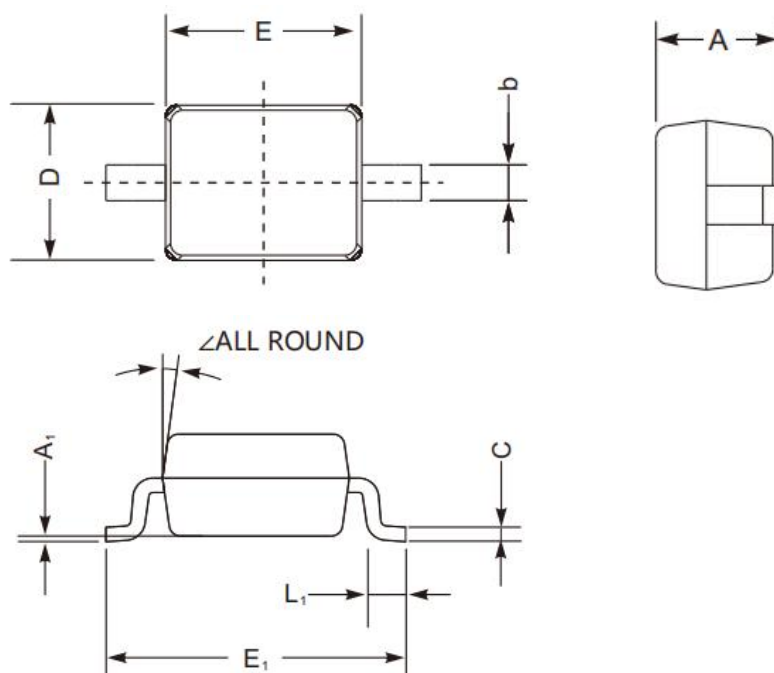




Package Information

SOD-323

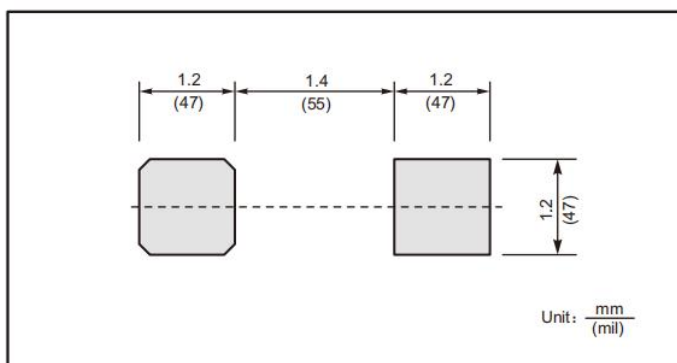
Dimensions in mm



SOD-323 mechanical data

UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	55	100	9.8	7.9	—	

The recommended mounting pad size





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