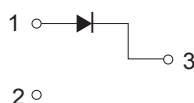
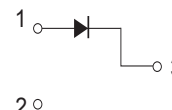
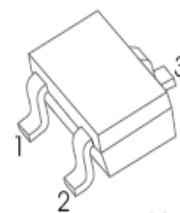


SOT-323 Plastic-Encapsulate Diodes**1SS370****Switching Diodes****FEATURES**

- Low Forward Voltage
- Fast Reverse Recovery Time
- High Voltage, High Speed Switching Applications
- Small Total Capacitance

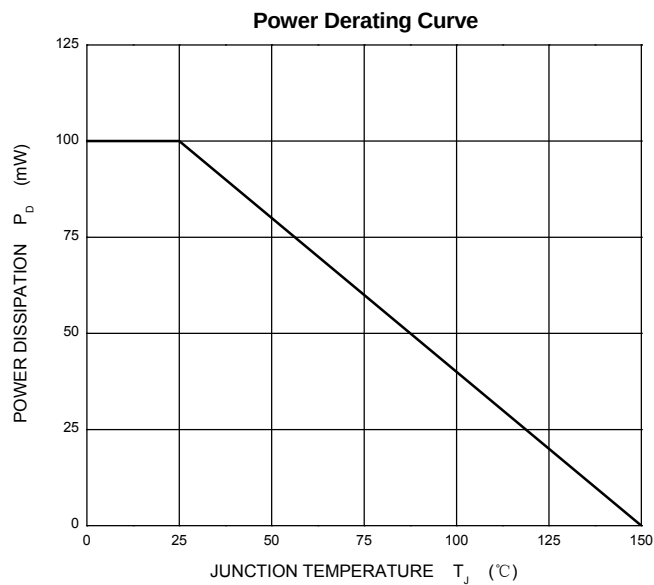
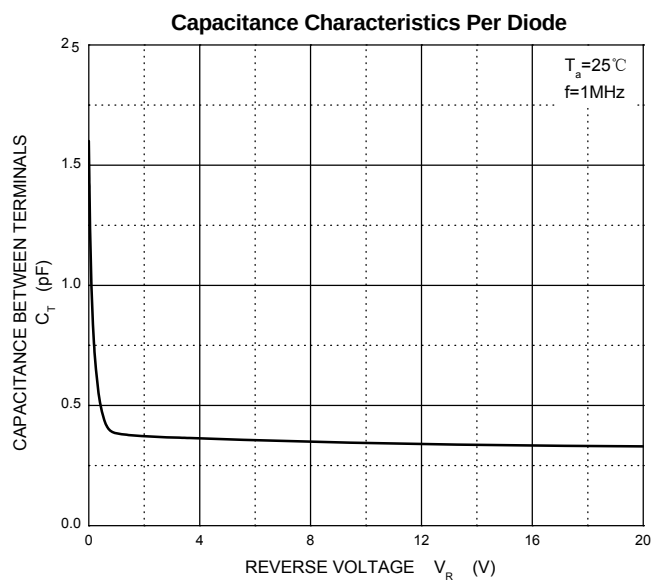
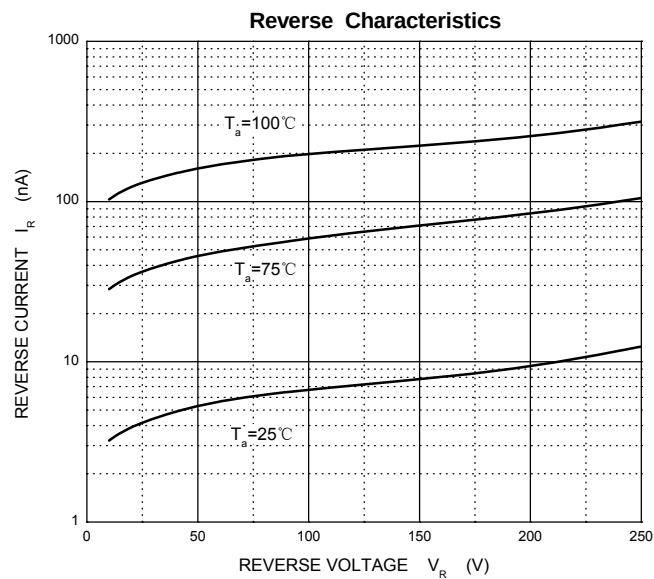
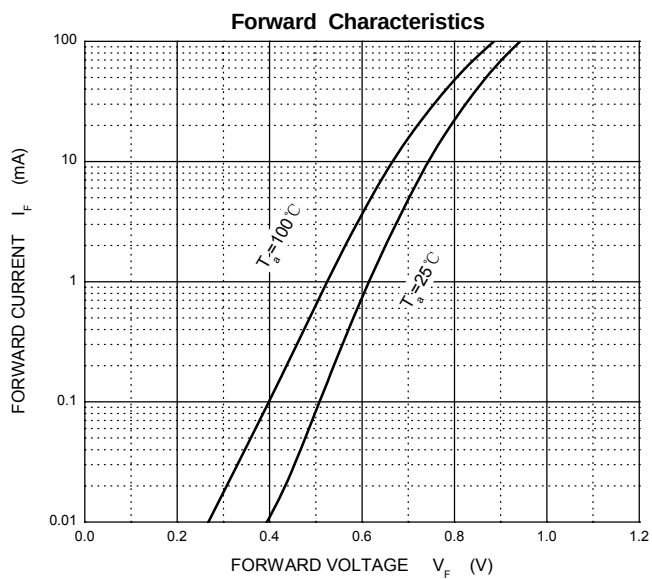
MARKING**Equivalent Circuit****SOT-323****MAXIMUM RATINGS** ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	250	V
DC reverse voltage	V_R	200	V
Peak forward current	I_{FM}	300	mA
Mean rectifying current	I_o	100	mA
Non-Repetitive Peak Forward Surge current@t=8.3ms	I_{FSM}	2.0	A
Operation Junction and Storage Temperature Range	T_J, T_{stg}	-55~+150	$^{\circ}\text{C}$

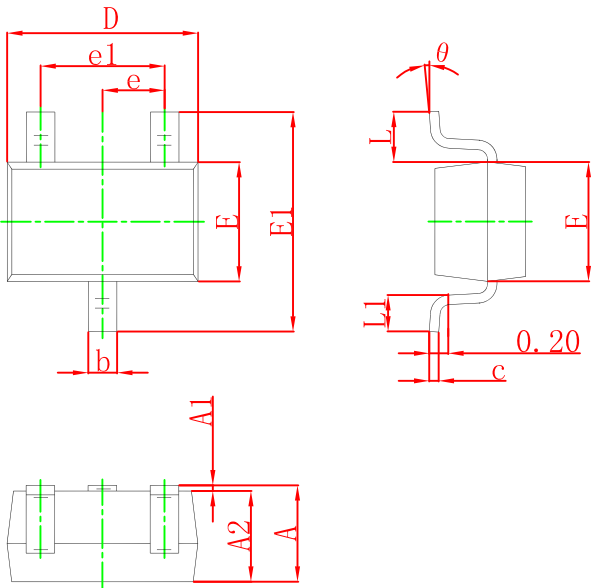
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			1	V	$I_F=10\text{mA}$
				1.2	V	$I_F=100\text{mA}$
Reverse current	I_R			0.1	μA	$V_R=50\text{V}$
				1	μA	$V_R=200\text{V}$
Capacitance between terminals	C_T			3.0	pF	$V_R=0, f=1\text{MHz}$
Reverse recovery time	t_{rr}		60		ns	$V_R=6\text{V}, I_F=10\text{mA}, I_{rr}=0.1 \cdot I_R$

Typical Characteristics

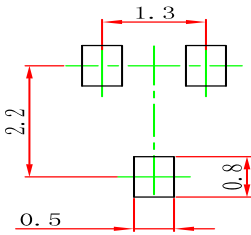


Package Outline Dimensions (SOT-323)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

Suggested Pad Layout (SOT-323)



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