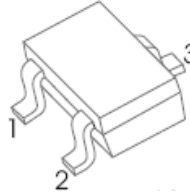
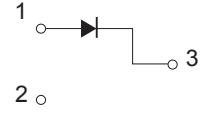


Features

- Fast switching speed
- For general purpose switching applications
- High conductance



SOT-323



Schematic Diagram

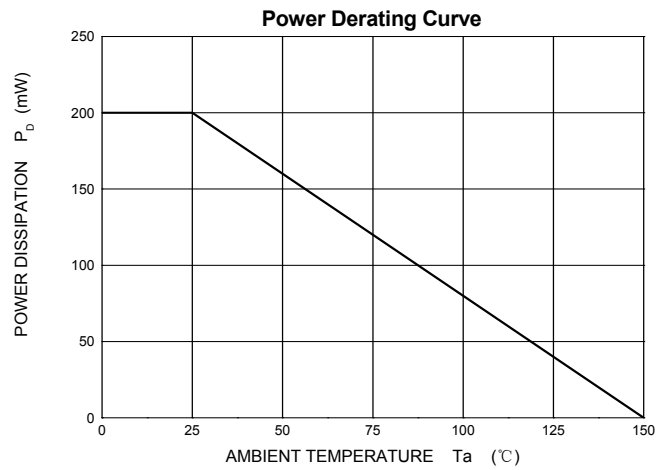
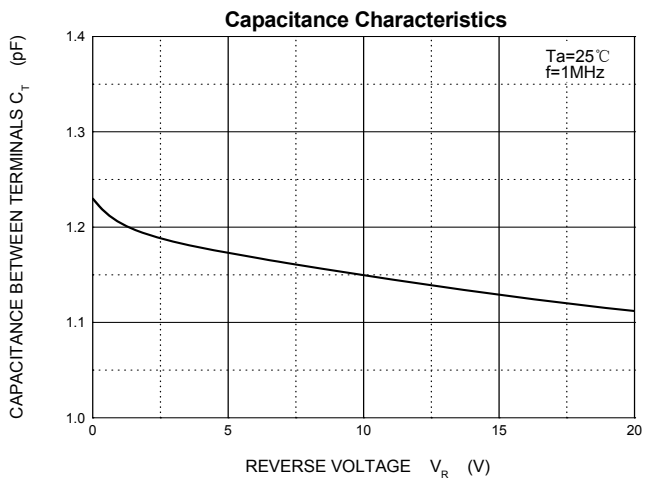
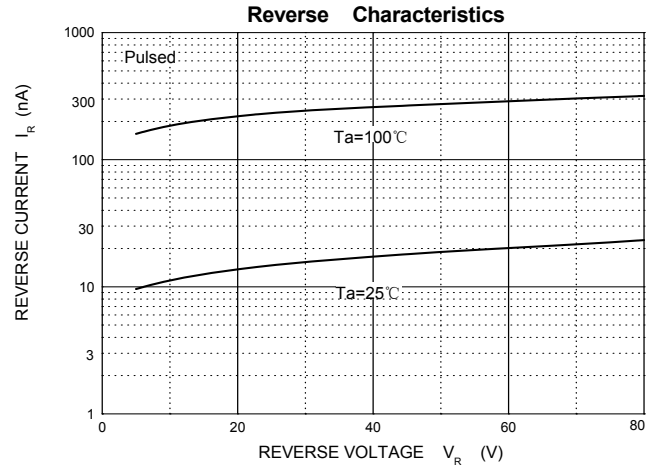
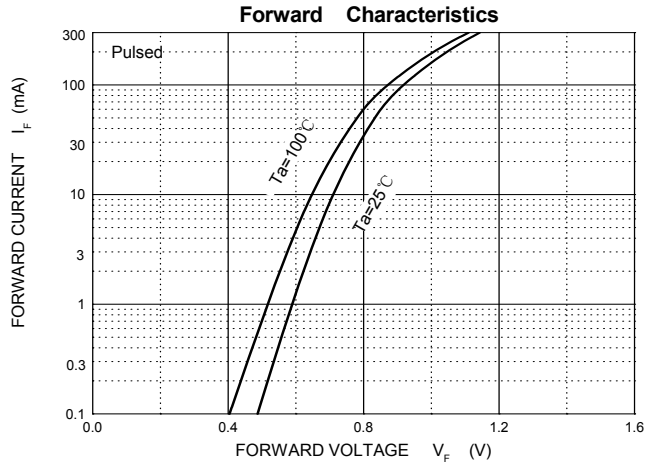
Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Peak Reverse Voltage Working Peak	V _{R(RM)}	75	V
Reverse Voltage	V _{R(WM)}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	A
Power Dissipation	P _d	200	mW
Thermal Resistance Junction to Ambient	R _{θJA}	625	°C/W
Junction Temperature	T _j	-55 to +150	°C
Storage Temperature	T _{STG}	-55 to +150	°C

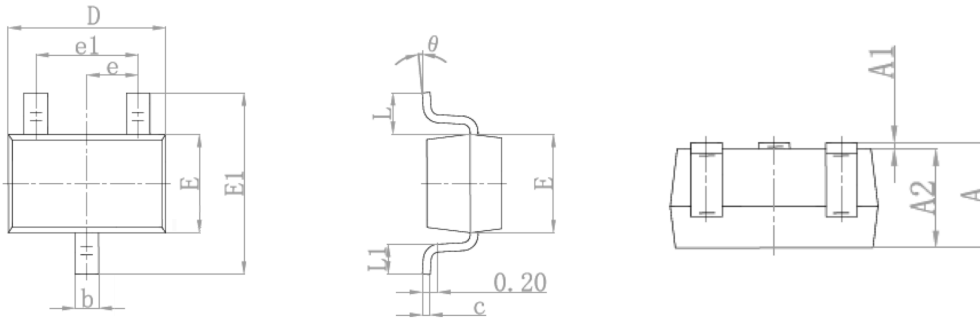
Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Max	Unit
Reverse Breakdown Voltage	V _(BR)	I _R =10μA	75	--	V
Forward Voltage	V _{F1}	I _F =1mA	--	0.715	V
	V _{F2}	I _F =10mA	--	0.855	V
	V _{F3}	I _F =50mA	--	1.0	V
	V _{F4}	I _F =150mA	--	1.25	V
Reverse Current	I _{R1}	V _R =75V	--	1	μA
	I _{R2}	V _R =20V	--	25	nA
Capacitance between Terminals	C _T	V _R =0V, f=1MHz	--	2	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω	--	4	ns

Typical Characteristic Curves

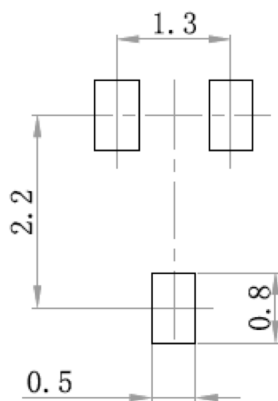


Package Outline Dimensions SOT-323



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°

Recommended Pad Layout



Note:

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