# Plastic-Encapsulate Diodes

SOT-323

SWITCHING DIODE

FEATURES

- This Switching Diode has The Following Features:
- Low Leakage Current Applications
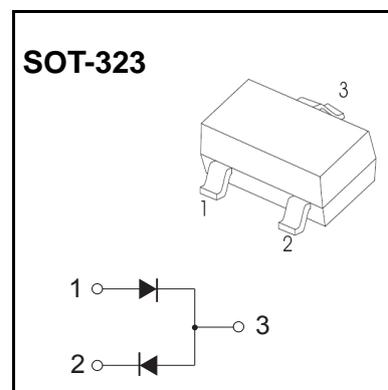
Marking:L21

Maximum Ratings @Ta=25℃

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	70	V
DC Blocking Voltage	V_R	70	V
Forward Continuous Current	I_{FM}	500	mA
Average Rectified Output Current	I_O	215	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	1.0	A
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	℃
Storage Temperature Range	T_{STG}	-55~+150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I_R= 100μA	70		V
Reverse voltage leakage current	I_R	V_R=70V		5	nA
Forward voltage	V_F	I_F=1mA I_F=10mA I_F=50mA I_F=150mA		900 1000 1100 1250	mV
Diode capacitance	C_D	V_R=0, f=1MHz		2	pF
Reverse recovery time	t_{rr}	I_F = I_R=10mA		3	μs

Typical Characteristics

Forward Characteristics

FORWARD CURRENT I_F (mA) vs FORWARD VOLTAGE V_F (V)

T_a=100℃

T_a=25℃
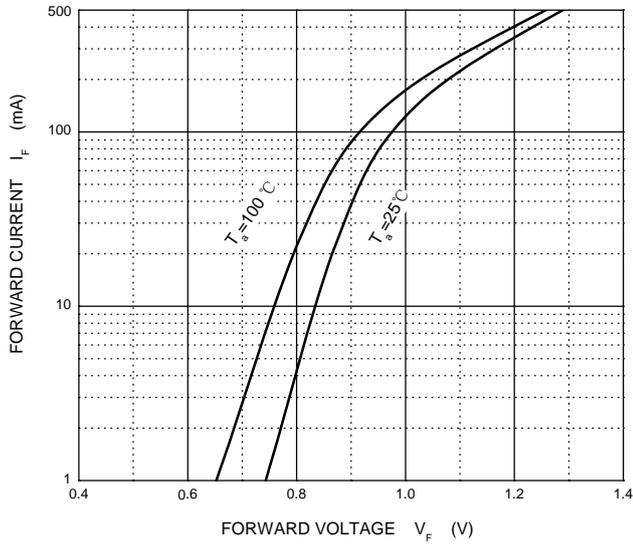
Reverse Characteristics

REVERSE CURRENT I_R (nA) vs REVERSE VOLTAGE V_R (V)

T_a=100 ℃

T_a=25 ℃
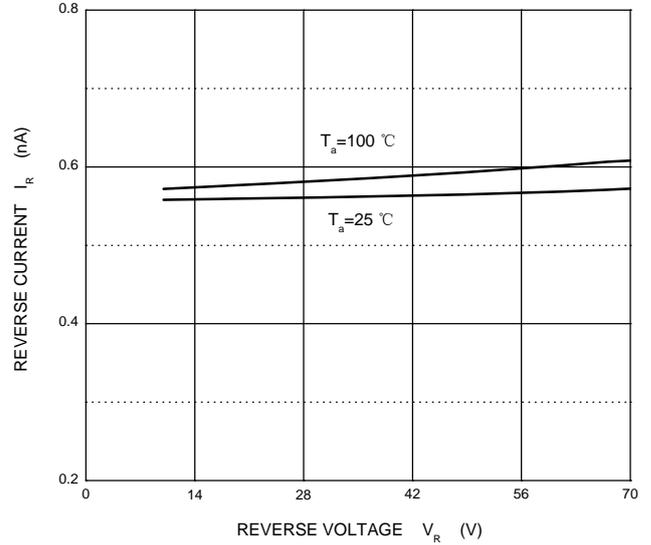
Capacitance Characteristics

CAPACITANCE BETWEEN TERMINALS C_T (pF) vs REVERSE VOLTAGE V_R (V)

T_a=25℃
f=1MHz

Power Derating Curve

POWER DISSIPATION P_D (mW) vs AMBIENT TEMPERATURE Ta (℃)
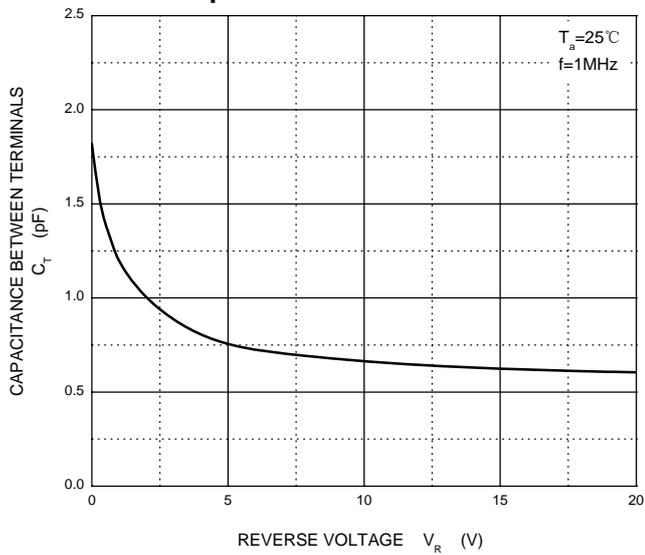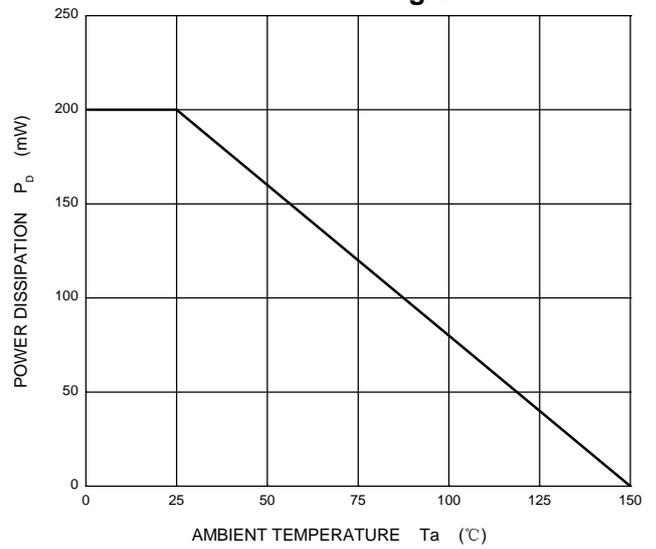
SOT-323 PACKAGE OUTLINE DIMENSIONS
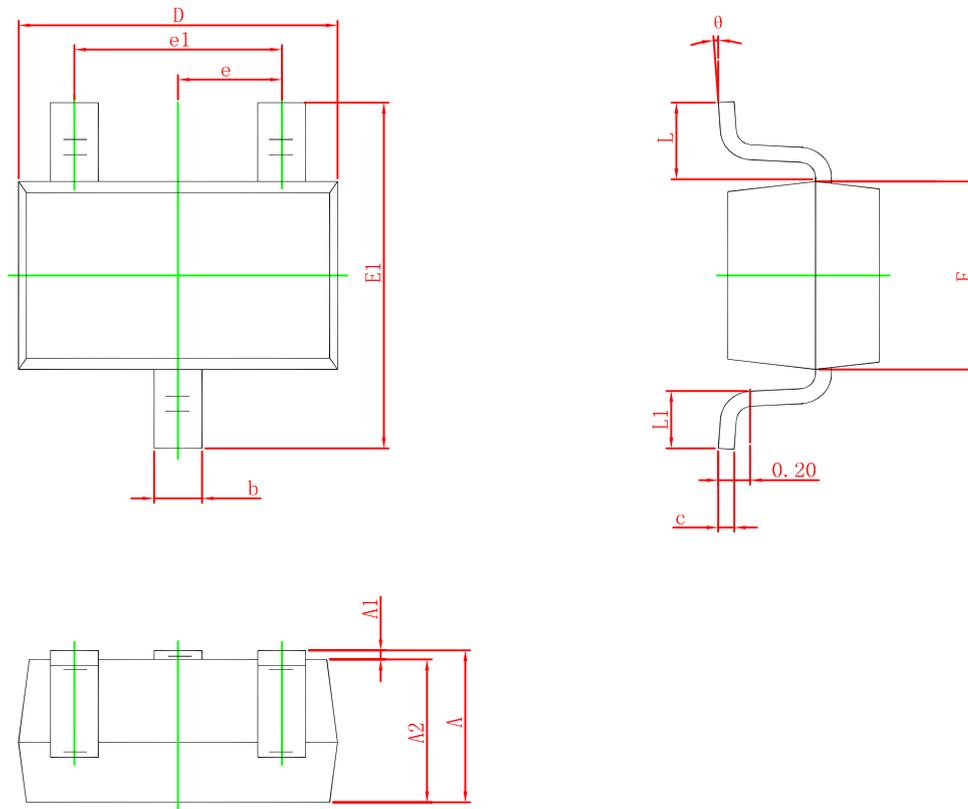
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP.		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°

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