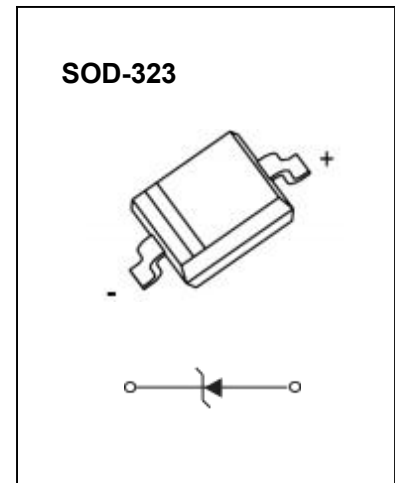


Features

- Fast Switching Speed
- For General Purpose Switching Applications.
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion

Marking

Marking	XX
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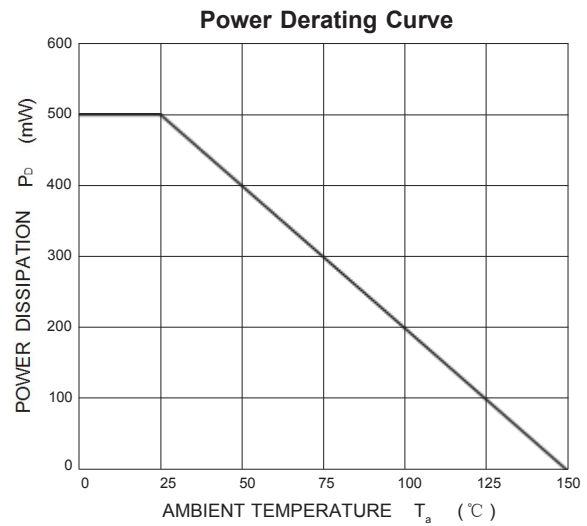
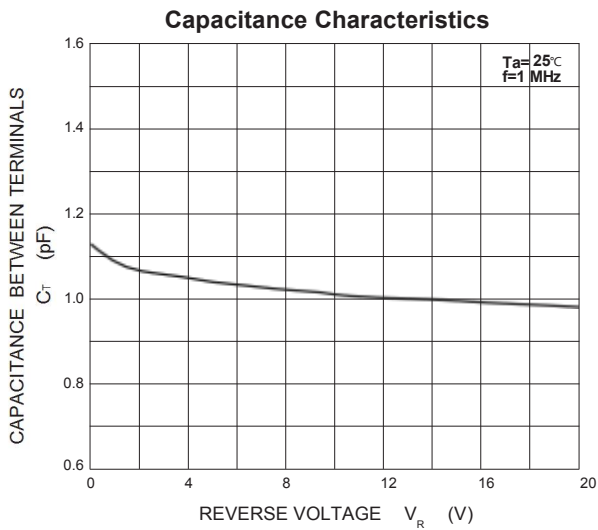
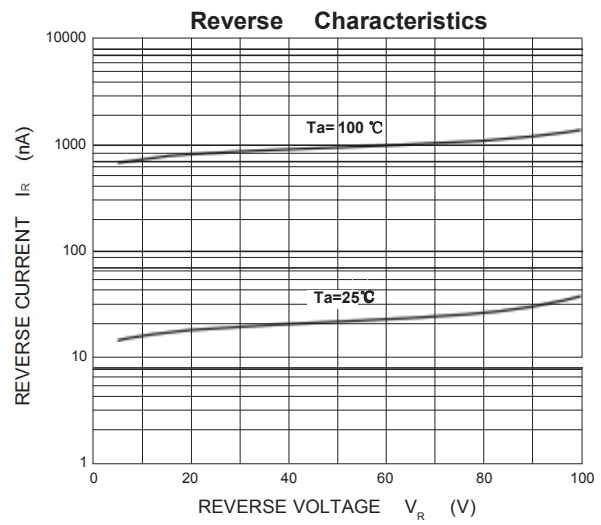
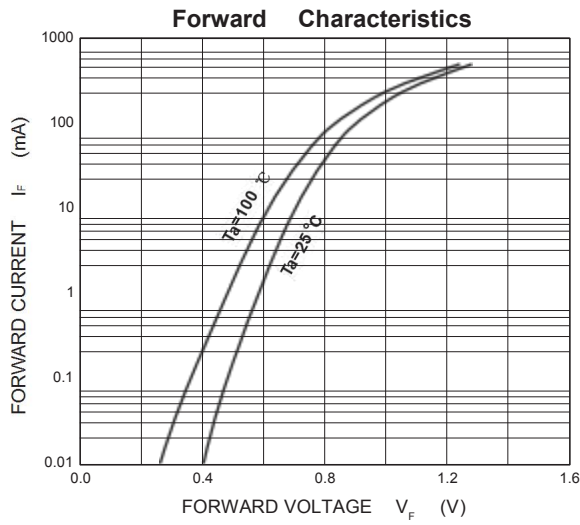


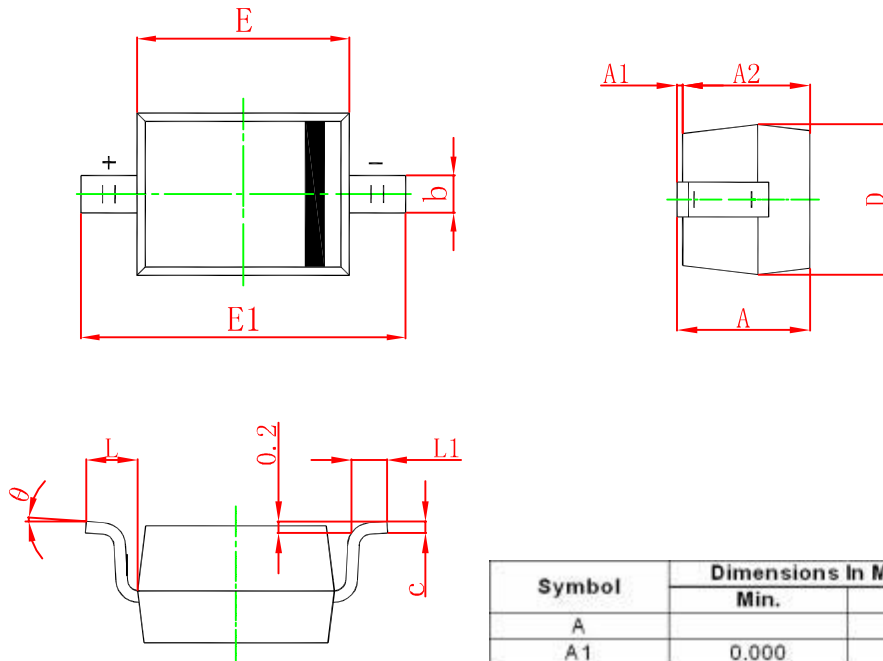
Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	300	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	300	
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	71	mA
Average Rectified Output Current	I_o	300	
Forward Continuous Current	I_{FM}	400	A
Peak Forward Surge Current @ $t=1\mu s$	I_{FSM}	2	
@ $t=1s$		1	
Power Dissipation	P_d	500	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature range	T_{stg}	-55 to 150	

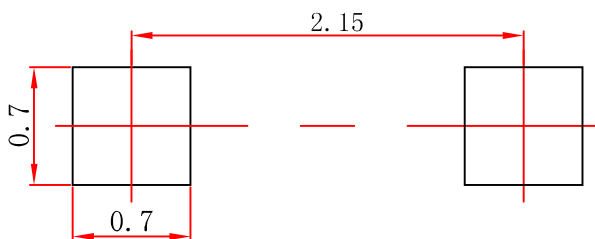
Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R=100\mu A$	100			V
Forward voltage	V_{F1}	$I_F=1mA$			0.715	
	V_{F2}	$I_F=10mA$			0.855	
	V_{F3}	$I_F=50mA$			1	
	V_{F4}	$I_F=150mA$			1.25	
Reverse voltage leakage current	I_{R1}	$V_R=75V$			1	μA
	I_{R2}	$V_R=20V$			25	nA
Junction capacitance	C_j	$V_R=0V, f=1MHz$			2	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10mA, I_{rr}=0.1I_R, R_L=100\Omega$			4	ns

Typical Characteristics


SOD-323 Package Outline Dimensions


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475 REF.		0.019 REF.	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

SOD-323 Suggested Pad Layout

Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.