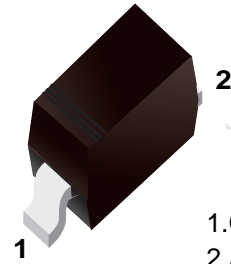


■ Switching Diodes

■ Features

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



1.Cathode
2.Anode

■ Simplified outline(SOD-323)

Top View

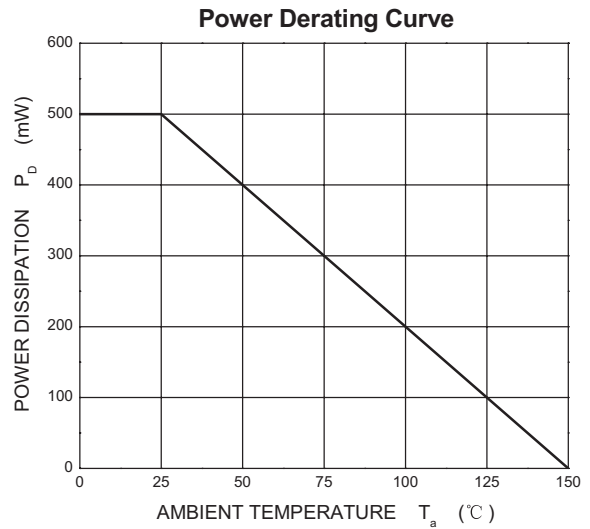
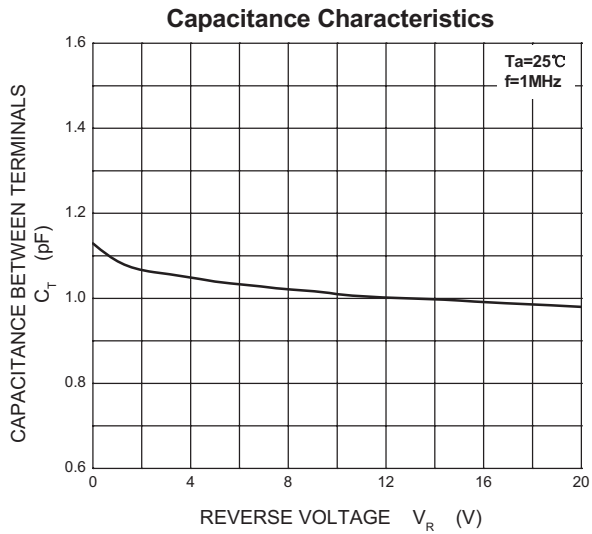
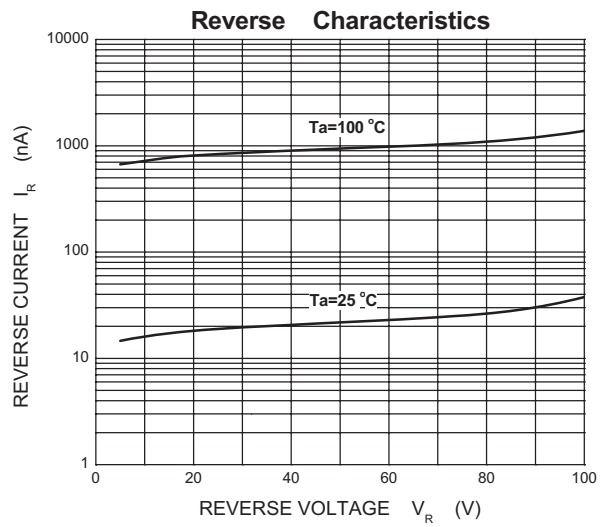
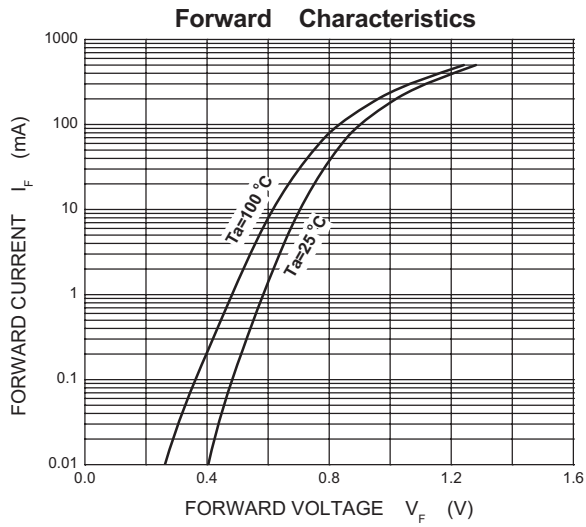
■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	100	
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	150	
Forward Continuous Current	I_{FM}	300	A
Peak Forward Surge Current @ t=1us	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	

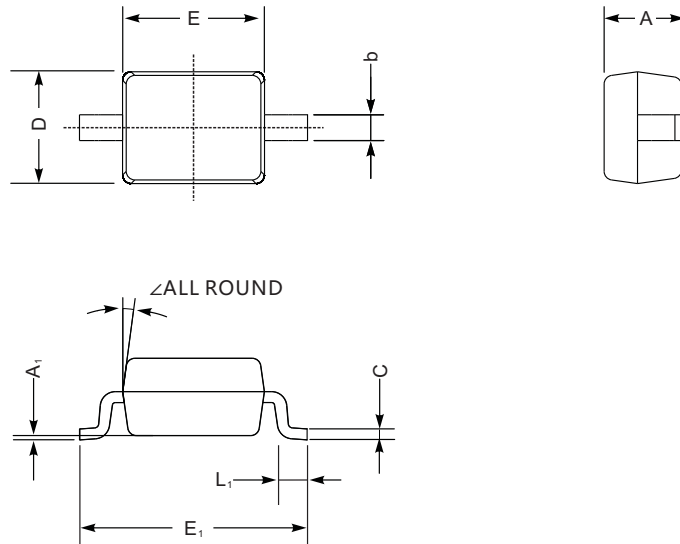
■ Electrical Characteristics Ta = 25°C

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

■ Typical Characteristics



■ SOD-323



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	63	100	9.8	7.9	—	

■ The recommended mounting pad size

