SMD SWITCHING DIODE

Parameter	Value	Unit
V_R	100	V
I_O	150	mA





SOD-323

Features

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

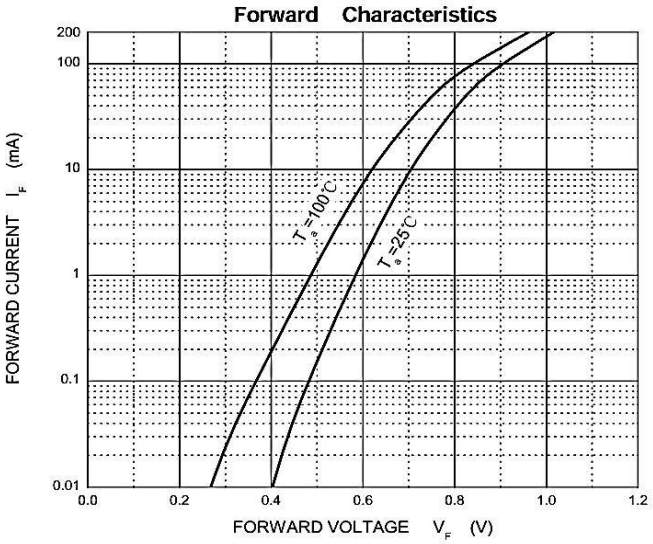
Absolute Maximum Ratings (Ta=25℃ unless otherwise noted)

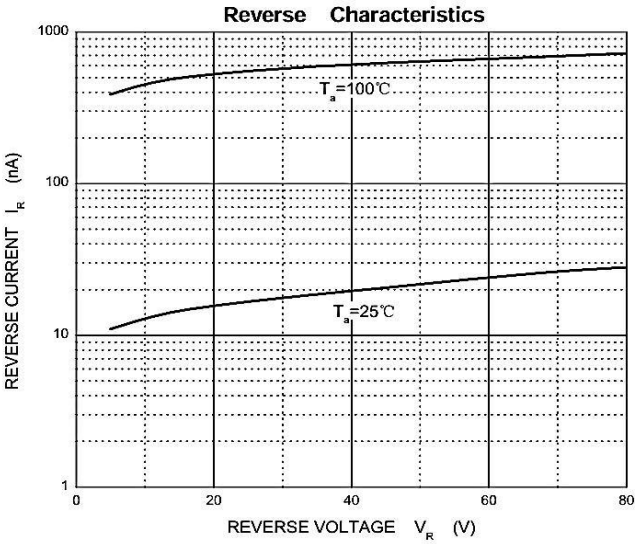
Parameter	Symbol	Value	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	100	V
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	75	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Peak forward surge current @=1.0μs @=1.0s	I_{FSM}	2.0 1.0	A
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	625	℃/W
Junction temperature	T_j	150	℃
Storage temperature	T_{STG}	-55~+150	℃

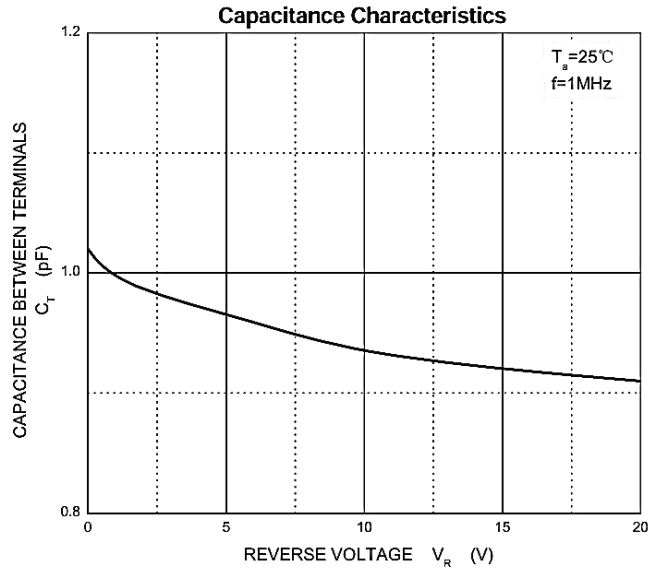
Electrical Characteristics(Ta=25℃ unless otherwise noted)

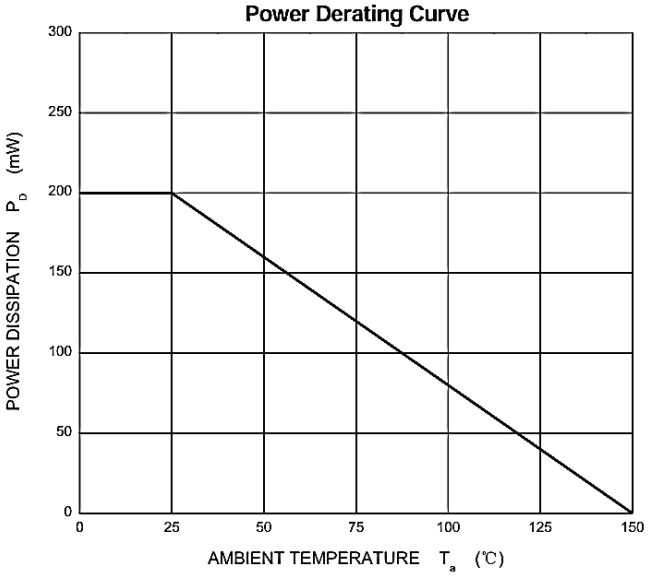
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	V_F1	I_F=1mA			0.715	V
	V_F2	I_F=10mA			0.855	V
	V_F3	I_F=50mA			1.0	V
	V_F4	I_F=150mA			1.25	V
Reverse current	I_R1	V_R=75V			1	μA
	I_R2	V_R=20V			25	nA
Capacitance between terminals	C_T	V_R=0V,f=1MHz			2	pF
Reverse recovery time	t_{RR}	I_F=I_R=10mA I_{RR}=0.1×I_R,R_L=100Ω			4	ns

Typical Characteristics

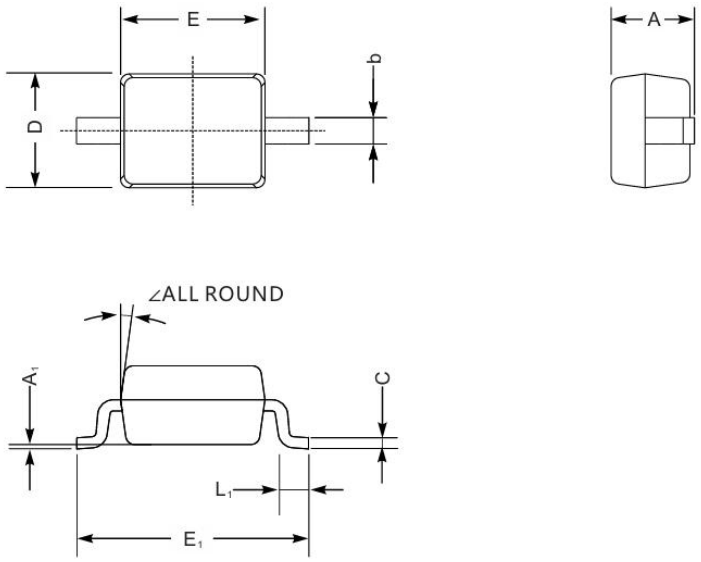








Package Outline



Unit		A	C	D	E	E1	b	L1	A1	∠
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		

***Important Usage Information and Disclaimer**

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