SMD SWITCHING DIODE

Parameter	Value	Unit
V_R	100	V
I_O	150	mA





SOD-123

Features

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

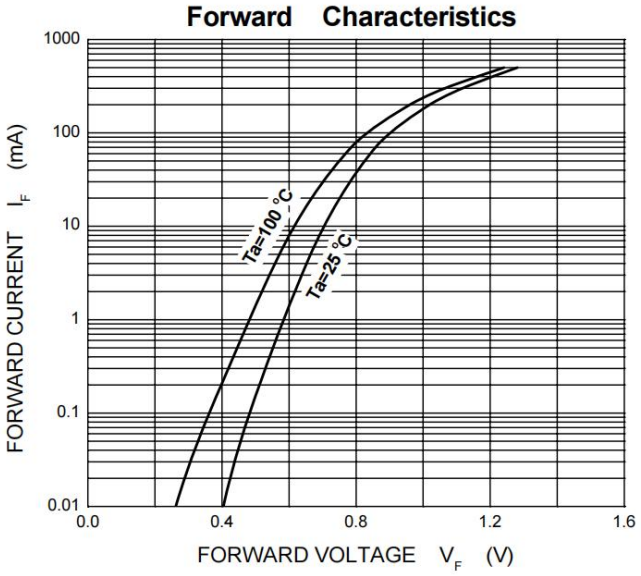
Absolute Maximum Ratings (Ta=25℃ unless otherwise noted)

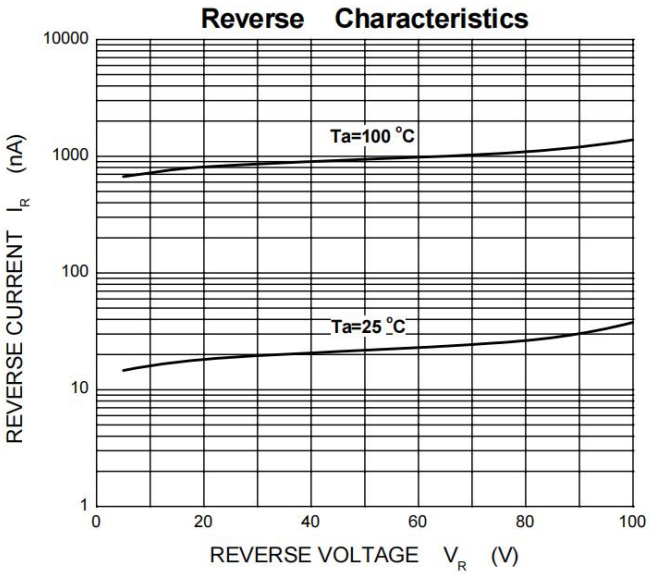
Parameter	Symbol	Value	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	100	V
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	75	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Peak forward surge current @=1.0μs @=1.0s	I_{FSM}	2.0 1.0	A
Power Dissipation	P_D	500	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250	℃/W
Junction temperature	T_j	150	℃
Storage temperature	T_{STG}	-65~+150	℃

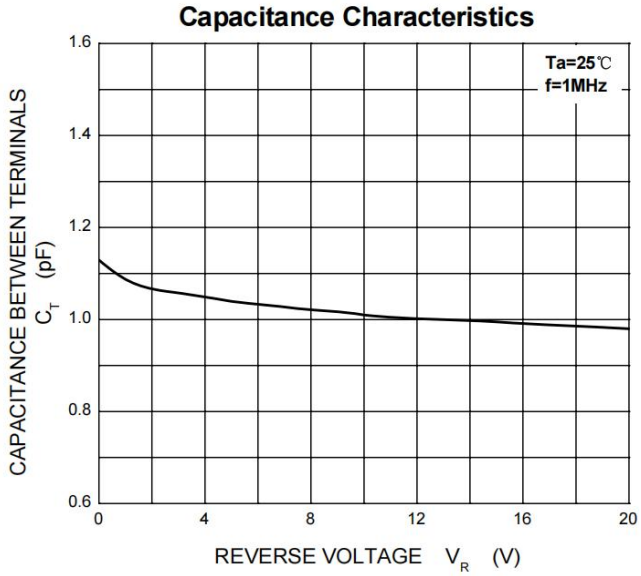
Electrical Characteristics(Ta=25℃ unless otherwise noted)

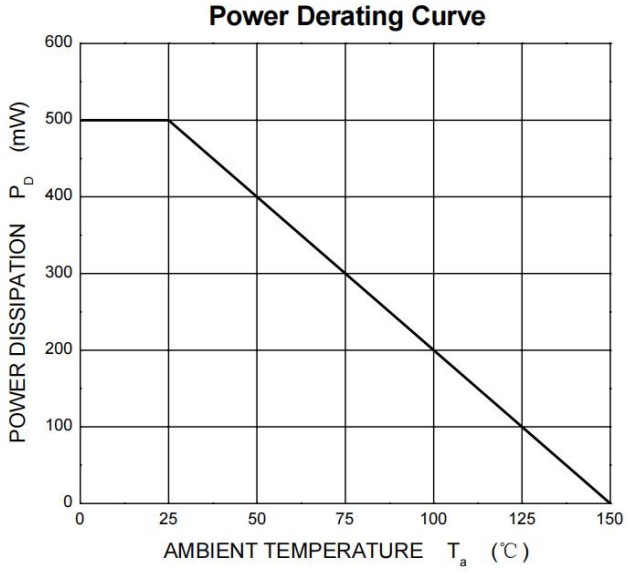
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_{F1}	IF=1mA			0.715	V
	V_{F2}	IF=10mA			0.855	V
	V_{F3}	IF=50mA			1.0	V
	V_{F4}	IF=150mA			1.25	V
Reverse current	I_{R1}	VR=75V			1	μA
	I_{R2}	VR=20V			25	nA
Capacitance between terminals	C_T	VR=0V,f=1MHz			2	pF
Reverse Recovery Time	t_{rr}				4	ns

Typical Characteristics

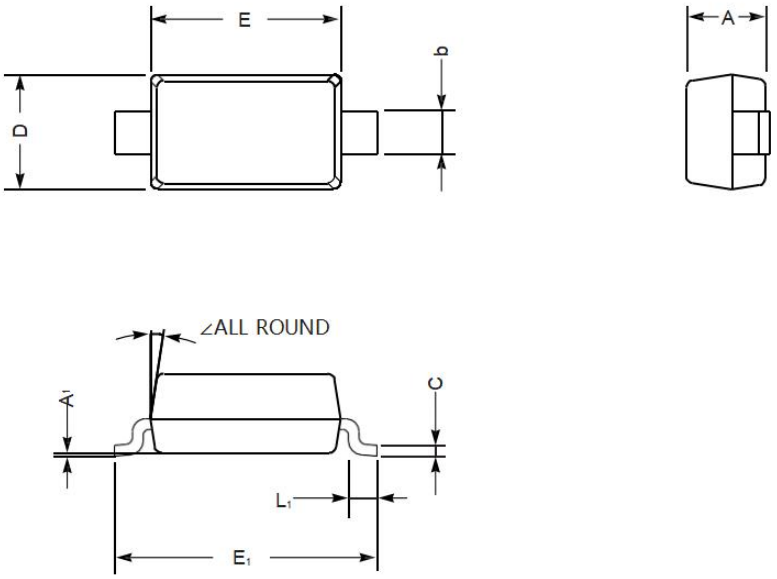








Package Outline



UNIT		A	C	D	E	E1	L1	b	A1	∠
mm	max	1.3	0.22	1.8	2.8	3.9	0.45	0.7	0.2	9°
	min	0.9	0.09	1.5	2.5	3.6	0.25	0.5		
mil	max	51	8.7	71	110	154	18	28	8	
	min	35	3.5	59	98	142	10	20		

***Important Usage Information and Disclaimer**

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