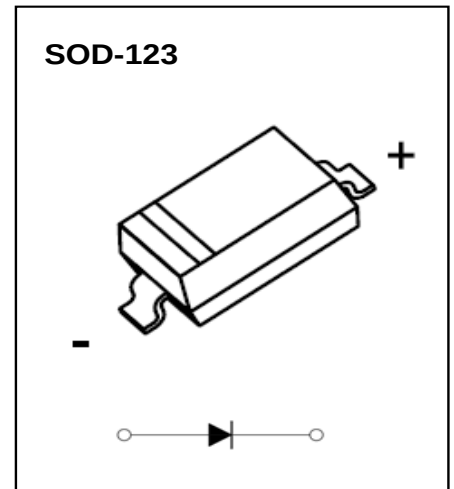
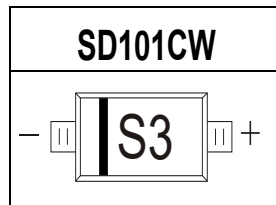


SOD-123 Plastic-Encapsulate Diodes**SD101CW****SCHOTTKY BARRIER DIODE****FEATURES**

- Low Forward Voltage Drop
- Negligible Reverse Recovery Time

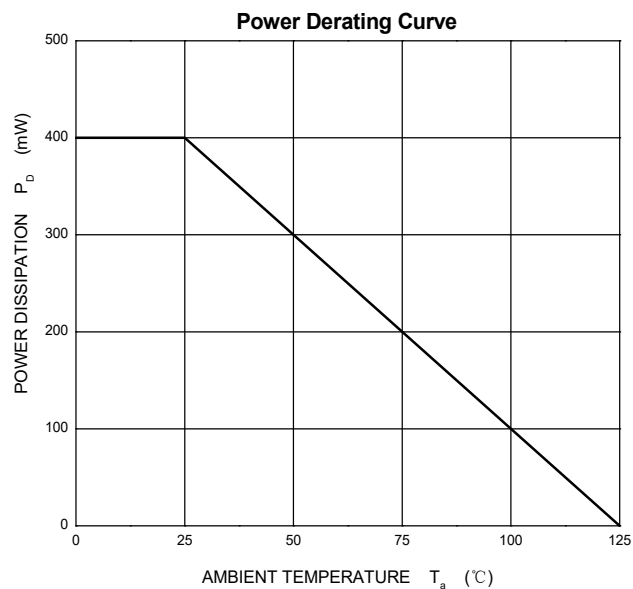
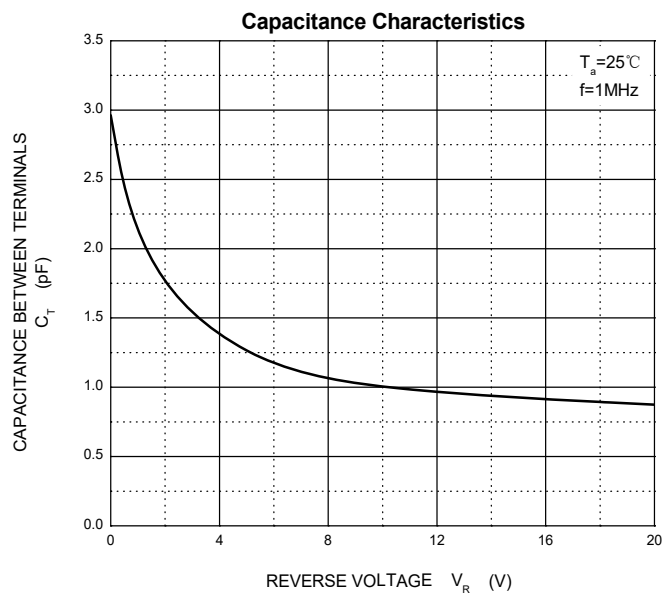
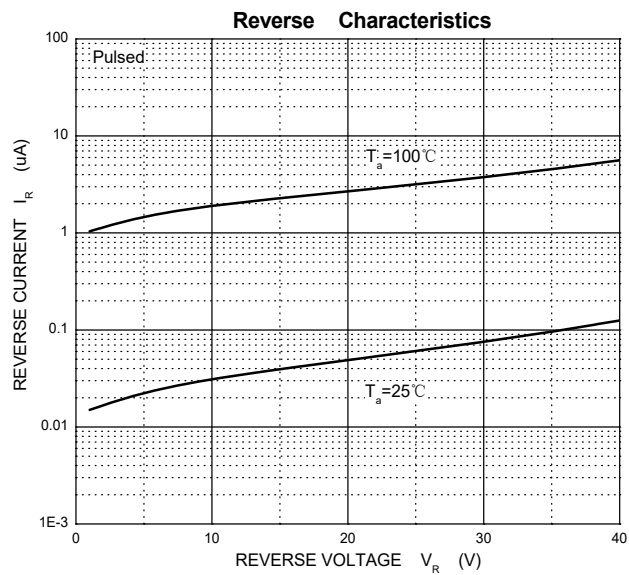
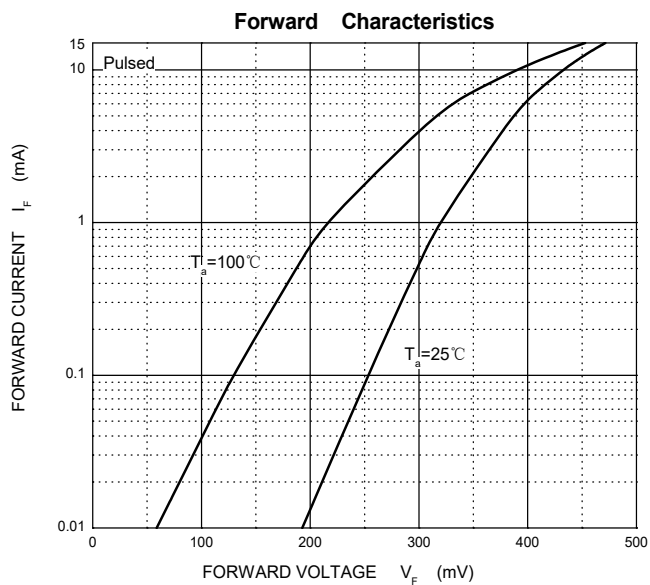
MARKING**MAXIMUM RATINGS** ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous Current	I_{FM}	15	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2.0	A
Power Dissipation	P_d	400	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250	$^{\circ}\text{C/W}$
Operating Junction Temperature Range	T_j	-40 ~ +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

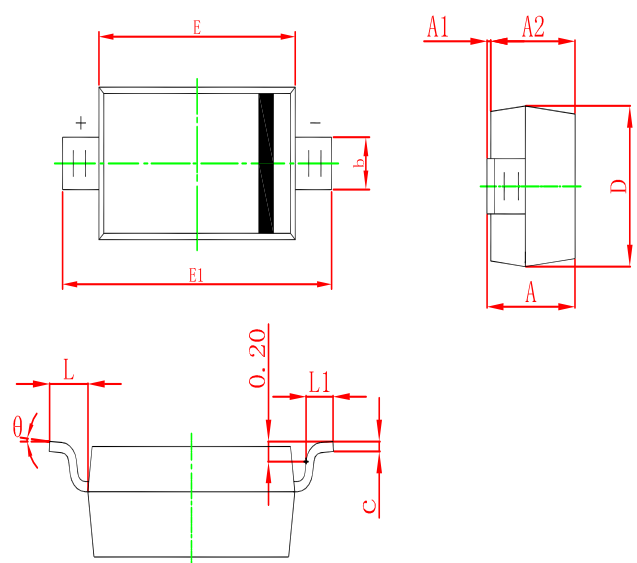
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V_R	40			V	$I_R=10\mu\text{A}$
Forward voltage	V_F			0.39 0.90	V	$I_F=1.0\text{mA}$ $I_F=15\text{mA}$
Reverse current	I_R			0.2	μA	$V_R=30\text{V}$
Capacitance between terminals	C_T		2.2		pF	$V_R=0\text{V}, f=1.0\text{MHz}$
Reverse recovery time	t_{rr}			1.0	ns	$I_F=I_R=5\text{mA}$ $I_{rr}=0.1I_R, R_L=100\Omega$

Typical Characteristics

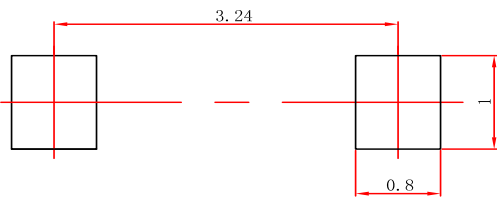


Package Outline Dimensions (SOD-123)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

Suggested Pad Layout (SOD-123)



- Note:
- 1.Controlling dimension:in millimeters.
 - 2.General tolerance:± 0.05mm.
 - 3.The pad layout is for reference purposes only.