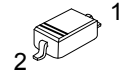


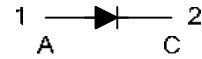
■ FEATURES

- * high speed
- * Low forward voltage
- * Fast reverse recovery time

SYMBOL



SOD-123



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Repetitive Reverse Voltage	V _{RRM}	100	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
Non-repetitive Peak Forward Surge Current	I _{FSM}	1.0	A
		4.0	A
Power Dissipation(Note 3)	P _D	200	mW
Junction Temperature	T _J	+175	°C
Storage Temperature	T _{STG}	-65 ~ +200	°C

- Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.
 2. These ratings are based on a maximum junction temperature of 200°C.
 3. Device mounted on FR-4 PCB minimum land pad.

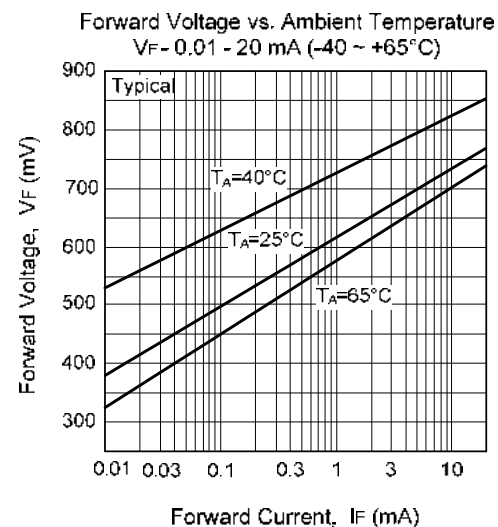
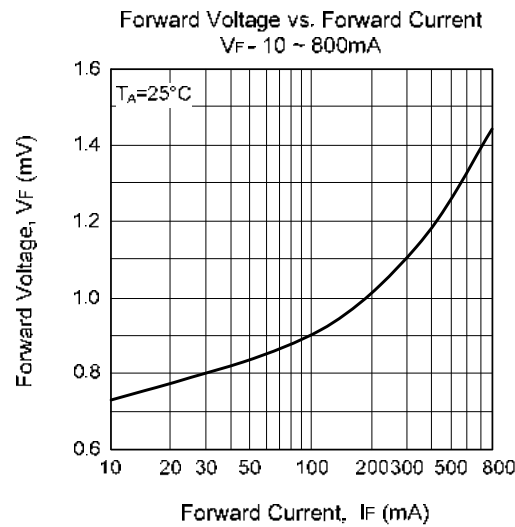
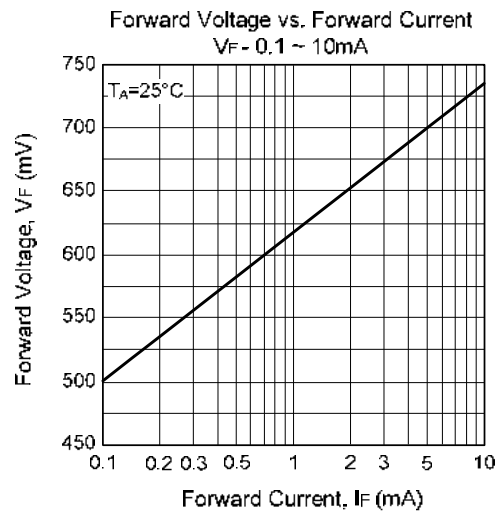
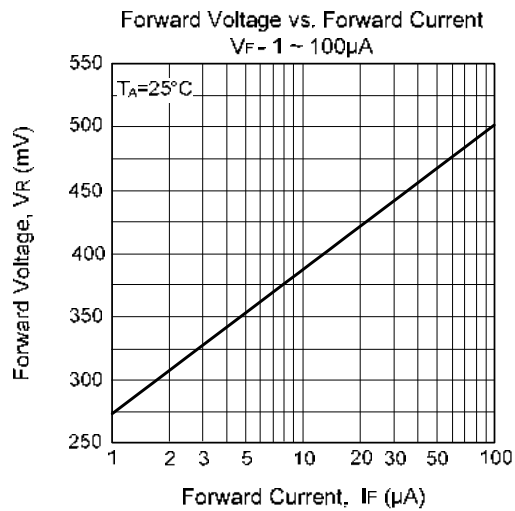
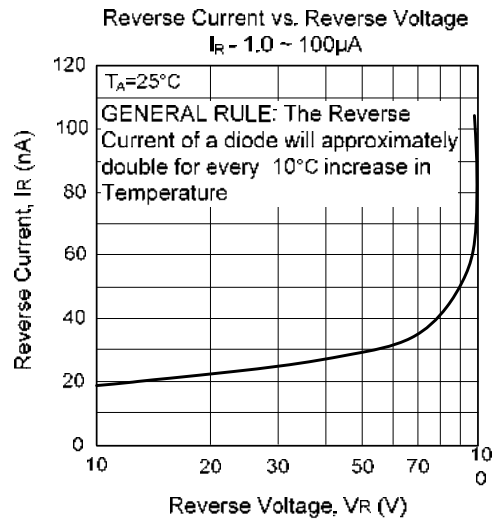
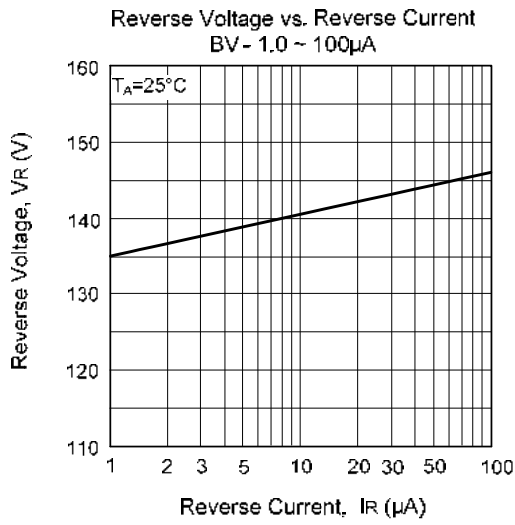
■ THERMAL DATA

CHARACTERISTIC	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ _{JA}	500	°C/W

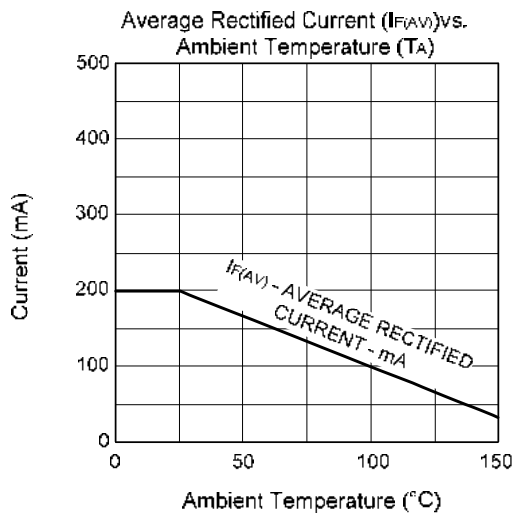
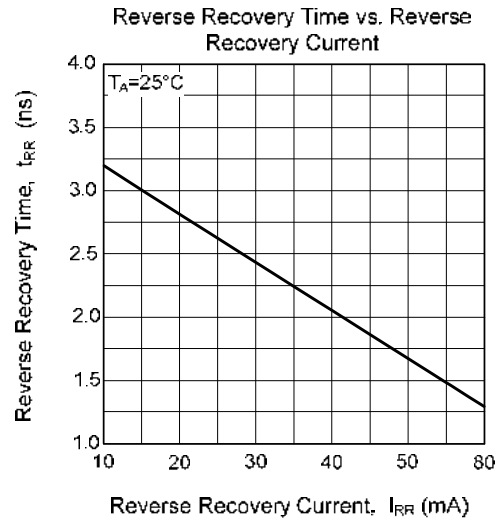
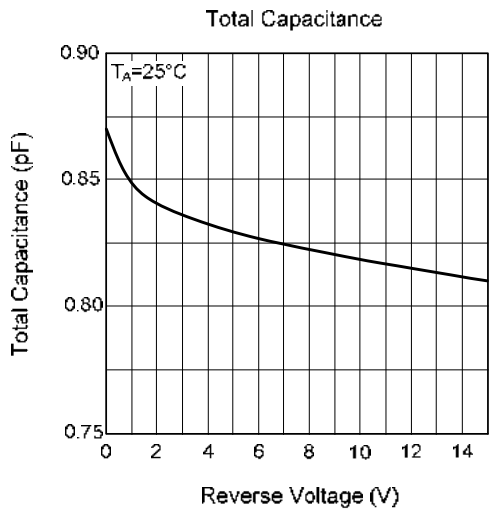
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage	V _R	I _R =100μA	100			V
		I _R =5.0μA	75			V
Forward Voltage	V _F	I _F =10mA			1.0	V
Reverse Current	I _R	V _R =20V			25	nA
		V _R =75V			5.0	μA
Total Capacitance	C _T	V _R =0, f=1.0MHz			4.0	pF
Reverse Recovery Time	t _{rr}	I _F =10mA, V _R =6.0V (60mA) I _{RR} =1.0mA, R _L =100Ω			4.0	ns

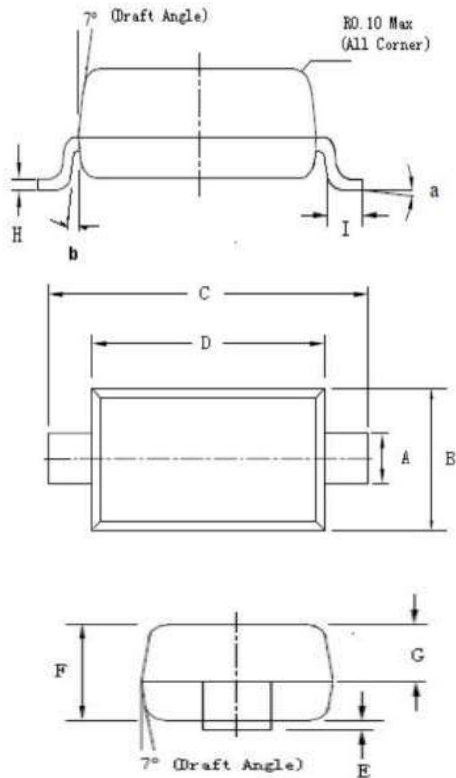
■ TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS(Cont.)



■ SOD123 PACKAGE OUTLINE DIMENSIONS



Symbol	Dim in mm		
	Min	Nom	Max
A	0.520	0.550	0.570
B	1.400	1.550	1.700
C	3.550	3.650	3.850
D	2.550	2.650	2.850
E	0.000	0.050	0.100
F	1.050	1.100	1.150
G	0.620	0.650	0.670
H	0.090	0.100	0.110
I	0.250	0.350	0.450
a	0°	-	6°
b	0.4°	-	0.8°

Mold Surface roughness < 4μm