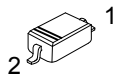
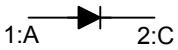
■ PRODUCT CHARACTERISTICS

VR(@IC=100uA)	100V
VF(Typ@IF=250 mA)	1V
IR(@VR=75V)	2uA
IF	150mA

SYMBOL



SOD-123



■ FEATURES

High breakdown voltage

Low turn-on voltage

Guard ring construction for transient protection

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

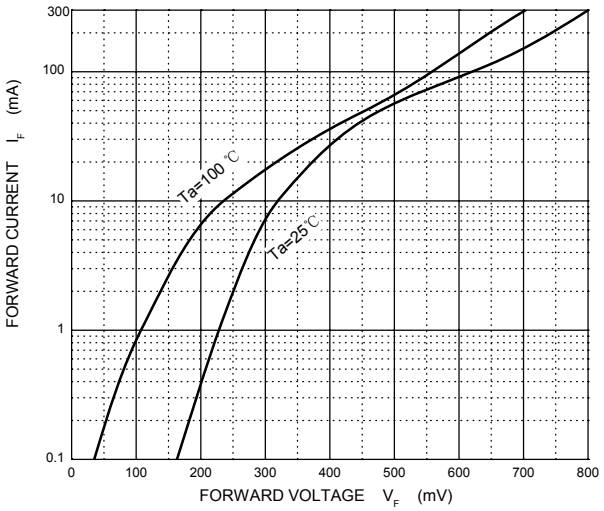
PARAMETER	SYMBOL	RATINGS	UNIT
Peak Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Work Peak Reverse Voltage	V_{RWM}	100	V
Forward continuous Current	I_F	150	mA
Repetitice Peak Forward Current	I_{FRM}	350	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I_{FSM}	750	mA
Power Dissipation	P_D	500	mW
Thermal Resistance From Junction to Ambient	$R_{\theta JA}$	200	℃/W
Operation Junction Temperature Range	T_J	-40 ~ +125	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C

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

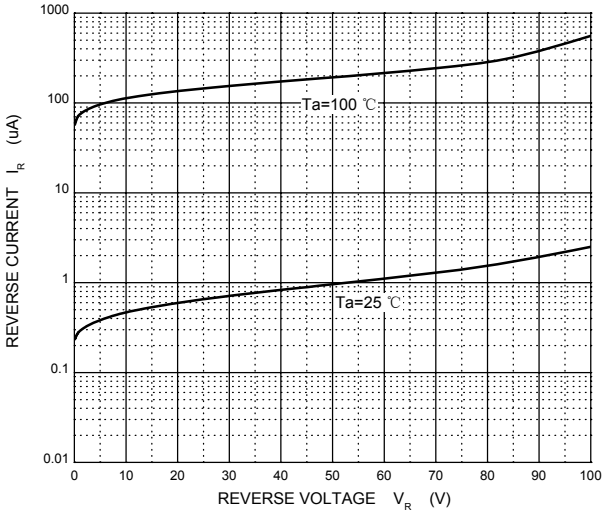
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V_R	I_R= 100μA	100	-	-	V
Forward Voltage	V_F	I_F=0.1mA	-	-	0.25	V
		I_F=10mA	-	-	0.45	V
		I_F=250mA	-	-	1	V
Reverse Voltage Leakage Current	I_R	V_R=1.5V	-	-	0.3	mA
		V_R=10V	-	-	0.5	μA
		V_R=50V	-	-	1	μA
		V_R=75V	-	-	2	μA
	I_R Tj=60℃	V_R=1.5V	-	-	12	μA
		V_R=10V	-	-	20	μA
		V_R=50V	-	-	44	μA
		V_R=75V	-	-	80	μA
Diode Capacitance	C_T	V_R =0V,f=1.0MHz	-	20	-	pF
		V_R =1V,f=1.0MHz	-	12	-	pF

■ TYPICAL CHARACTERISTICS

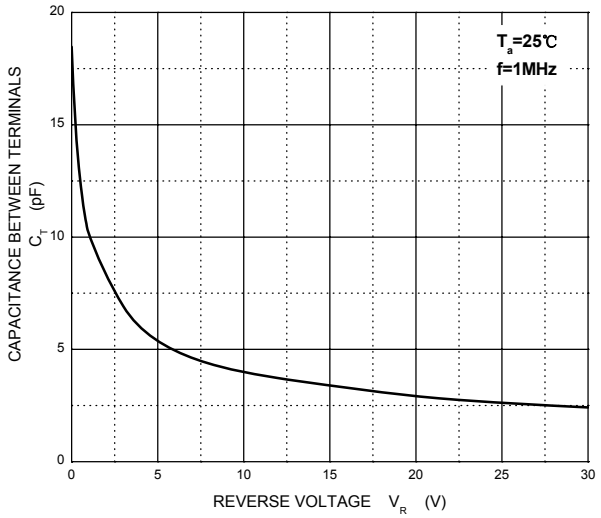
Forward Characteristics



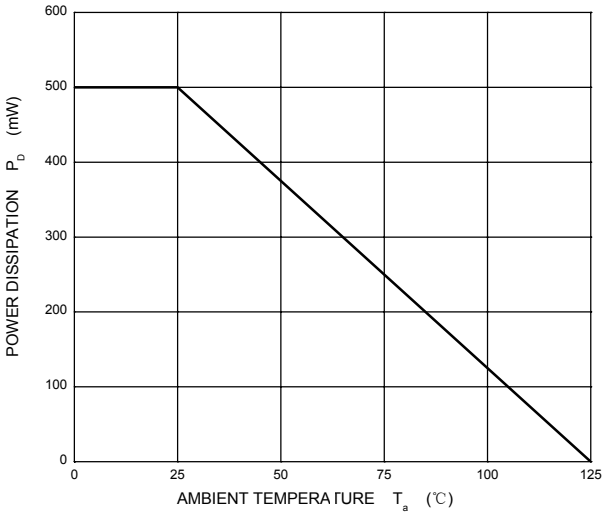
Reverse Characteristics



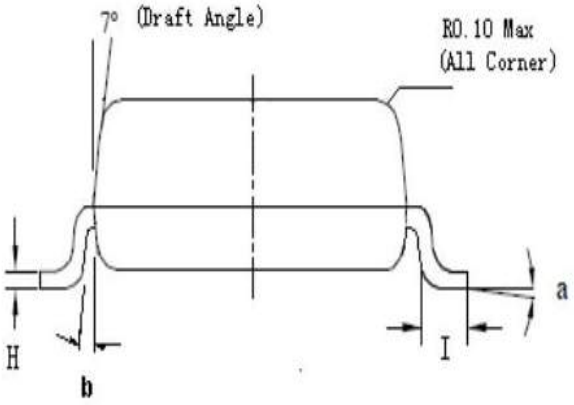
Capacitance Characteristics

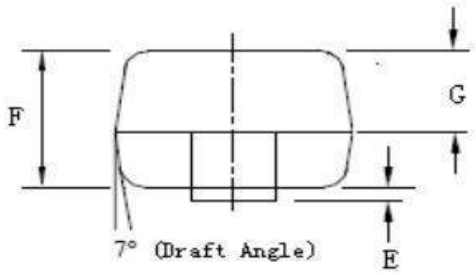


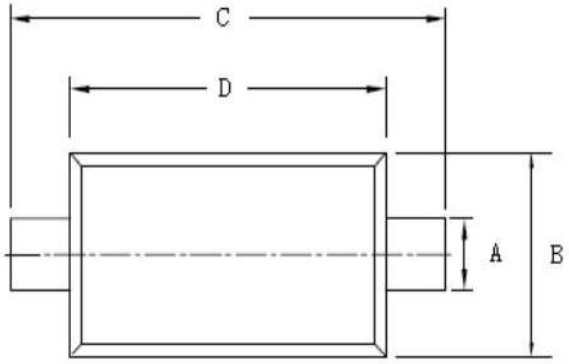
Power Derating Curve



■ SOD123 PACKAGE OUTINE 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°