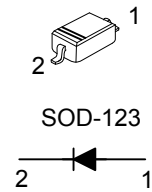


■ FEATURES

- * Low forward voltage drop
- * Guard ring construction for transient protection
- * Negligible reverse recovery time
- * Low reverse capacitance

SYMBOL



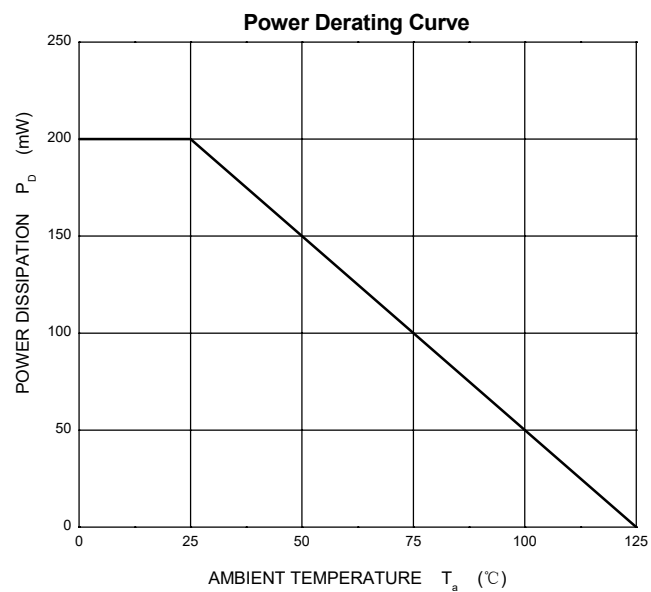
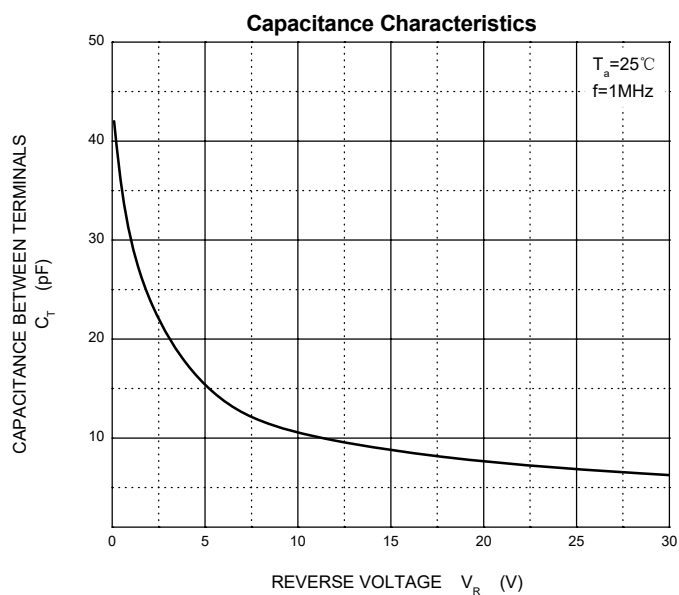
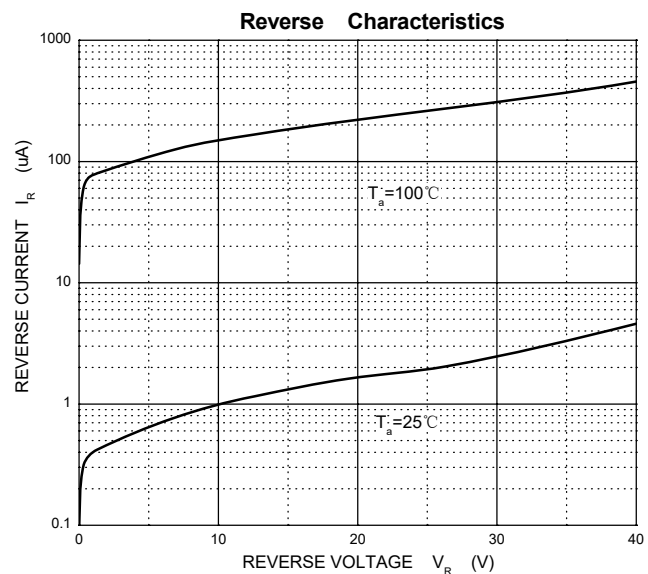
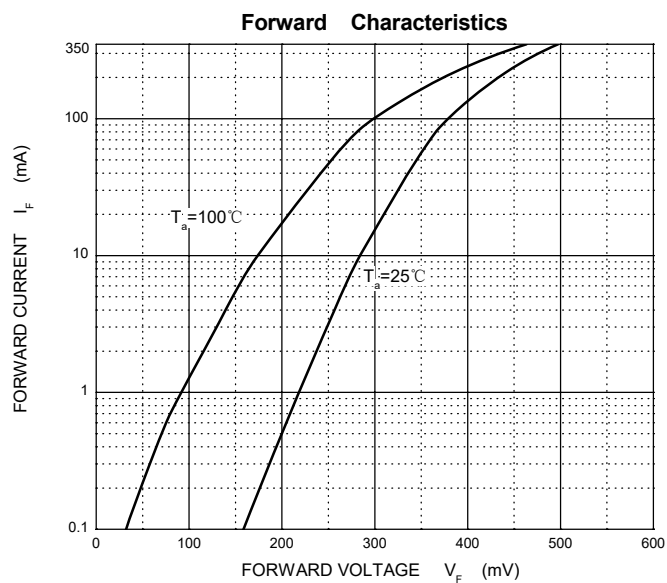
■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

Parameter	Symbol	Rating	Unit
Peak repetitive peak reverse voltage	V_{RRM}	40	V
Work peak reverse voltage	V_{RWM}	40	V
DC blocking voltage	V_R	40	V
RMS reverse voltage	$V_{R(RMS)}$	28	V
Forward continuous current	I_{FM}	350	mA
Non-repetitive peak forward surge current@t=8.3ms	I_{FSM}	2.0	A
Power dissipation	P_d	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	$^{\circ}\text{C}/\text{W}$
Junction temperature	T_j	-40~+125	$^{\circ}\text{C}$
Storage temperature	T_{STG}	-55~+150	$^{\circ}\text{C}$

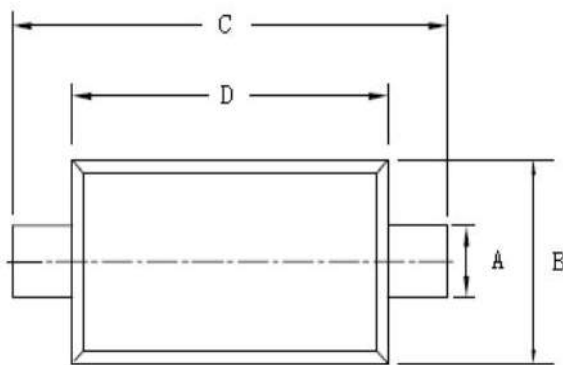
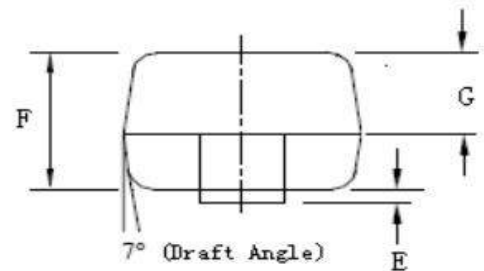
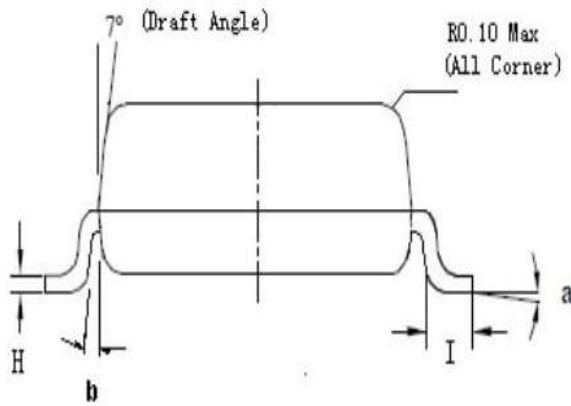
■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	40	-	-	V
Forward voltage	V_F	$I_F=20\text{mA}$	-	-	0.37	V
		$I_F=200\text{mA}$	-	-	0.60	V
Reverse current	I_{RM}	$V_R=30\text{V}$	-	-	5.0	μA
Capacitance between terminals	C_T	$V_R=0\text{V}, f=1.0\text{MHz}$	-	-	50	pF
Reverse recovery time	t_{rr}	$I_F=I_R=200\text{mA}$ $I_{rr}=0.1X I_R$, $R_L=100\Omega$	-	10	-	ns

■ TYPICAL CHARACTERISTICS



■ 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°