TECH PUBLIC
台舟电子

TPMMSD914

Switching Diode

www.sot23.com.tw

Features

- Fast switching speed
- High conductance

APPLICATIONS

- Surface mount fast switching diode

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel



SOD123

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Characteristic	Symbol	Value	Unit
Maximum repetitive reverse voltage	V_{RRM}	100	V
Continuous reverse Voltage	V_R	100	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Peak Forward Surge Current @t=1s @t=1ms	I_{FSM}	1.0 2.0	A
Power Dissipation	P_d	400	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	312	°C/W
Storage Temperature Rage	T_{STG}	-55 to +150	°C
Operating Junction Temperature	T_j	150	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	100 75		V	I_R=100μA I_R=5.0μA
Forward Voltage	V_F		1.0	V	I_F=10mA
Reverse Current	I_R		25 5.0	nA μA	V_R=20V V_R=75V
Diode Capacitance	C_D	-	4.0	pF	V_R=0,f=1.0MHz
Reverse Recovery Time	t_{rr}	-	4.0	ns	I_F=10mA,V_R=6.0V, I_{RR}=1.0mA,R_L=100Ω

Typical Electrical Characteristic Curves

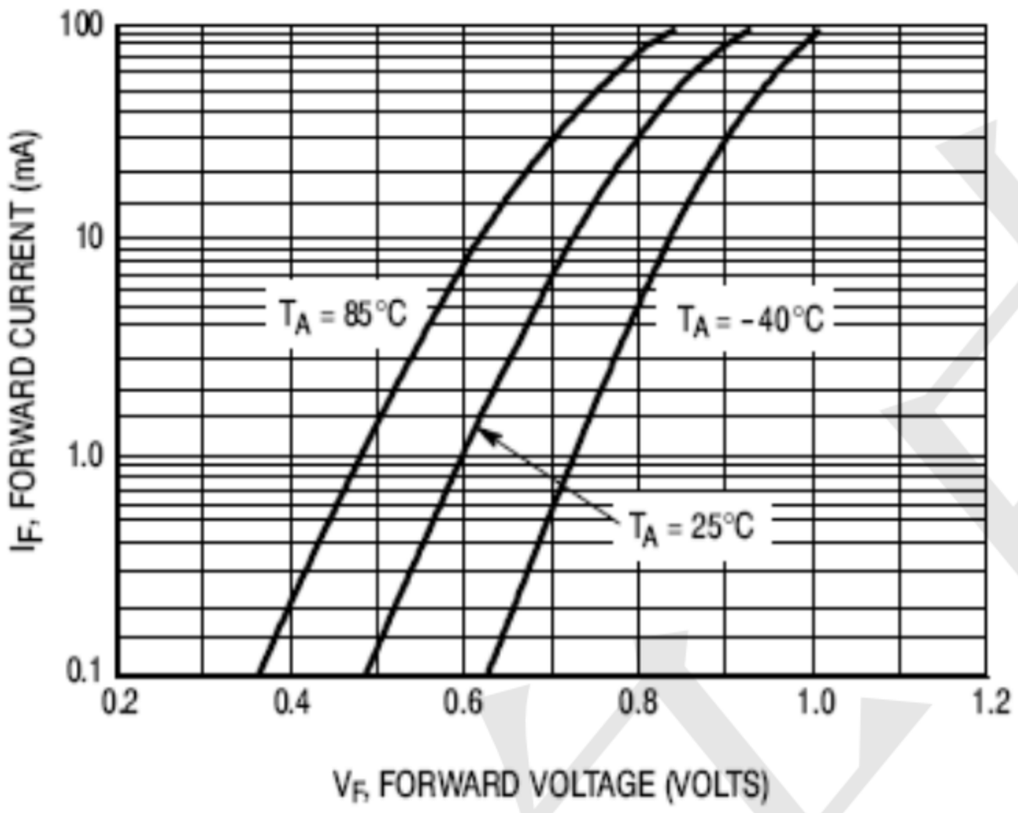


Figure 1. Forward Voltage

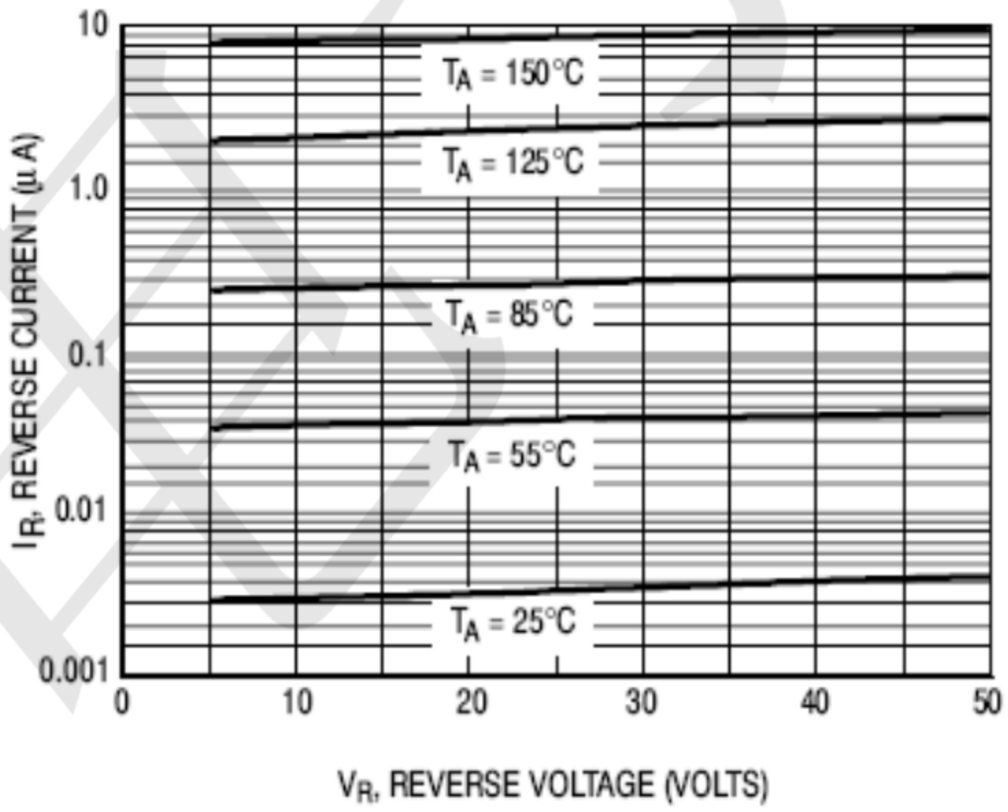


Figure 2. Leakage Current

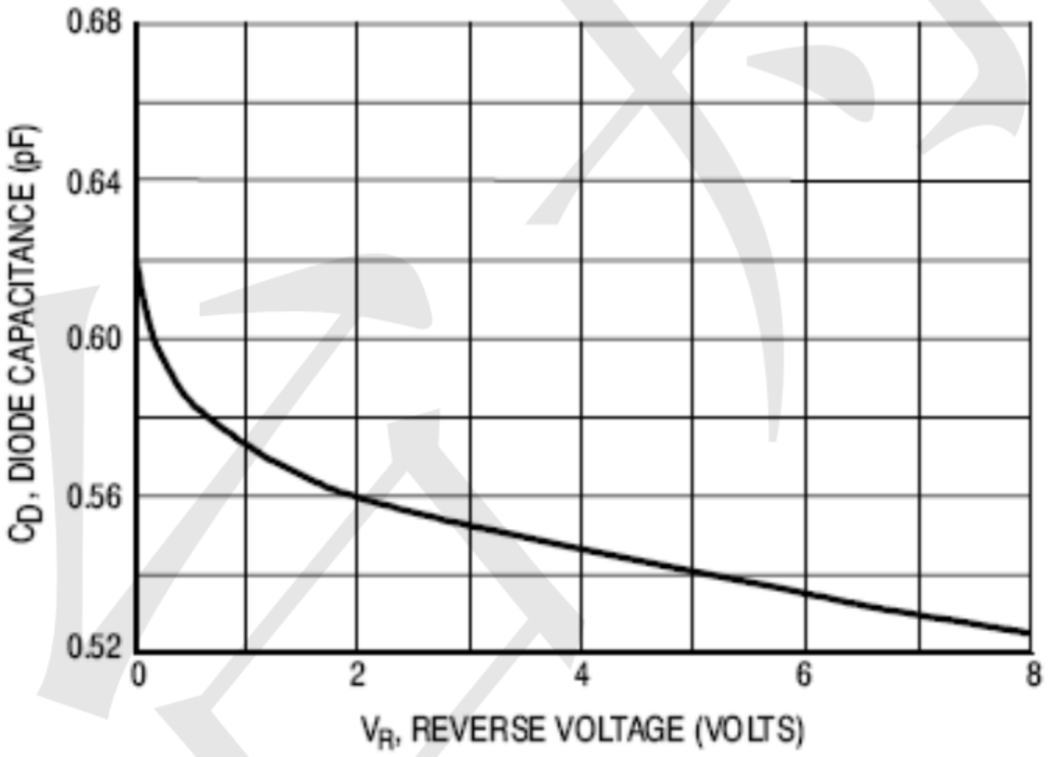
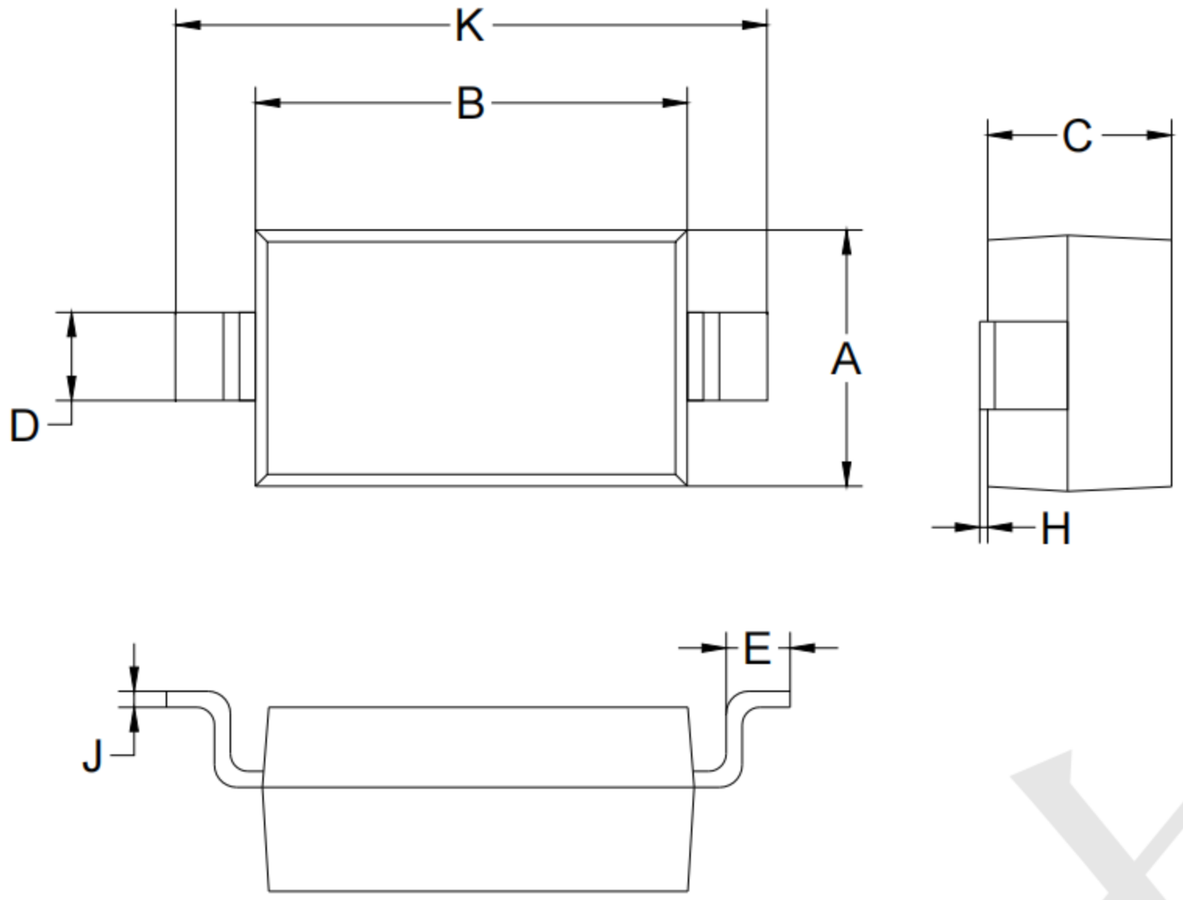


Figure 3. Capacitance

Outline Drawing - SOD123 (unit: mm)



SOD-123		
Dim	Min	Max
A	1.45	1.75
B	2.55	2.85
C	1.00	1.30
D	0.50	0.60
E	0.25	0.45
H	0.02	0.10
J	0.05	0.15
K	3.55	3.85

Mounting Pad Layout-SOD123 (unit: mm)

