JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD
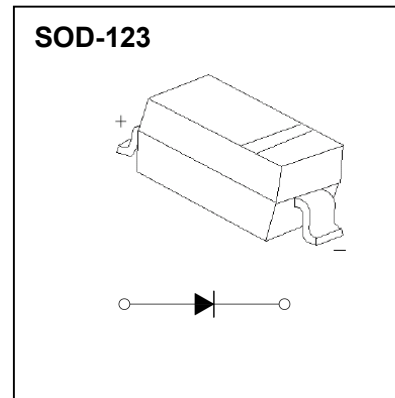
SOD-123 Plastic-Encapsulate Diodes

SOD-123

MMSD914 SMALL SIGNAL DIODE

FEATURES

- High Voltage

MARKING: 5D
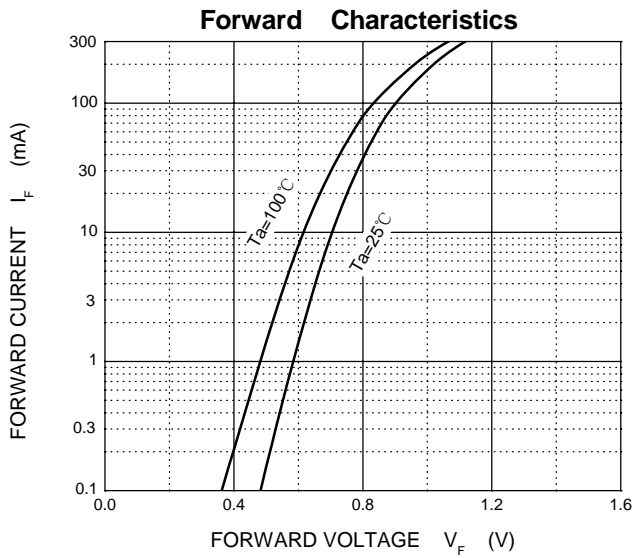
MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	100	V
I_O	Forward Current	0.2	A
I_{FSM}	Non-repetitive Peak Forward Surge Current @t=1ms	2	
P_D	Power Dissipation	400	mW
$R_{θJA}$	Thermal Resistance from Junction to Ambient	312	℃/W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~+150	℃

ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=5µA	75			V
		I_R=100µA	100			V
Reverse current	I_R	V_R=20V			25	nA
		V_R=75V			5	µA
Forward voltage	V_F	I_F=10mA			1	V
Total capacitance	C_{tot}	V_R=0V,f=1MHz			4	pF
Reverse recovery time	t_{rr}	I_F= I_R=30mA, I_{rr}=0.1× I_R, R_L=100Ω			4	ns

Typical Characteristics   MMSD914

Forward Characteristics

FORWARD CURRENT I_F (mA) vs FORWARD VOLTAGE V_F (V)

Ta=100℃, Ta=25℃

Reverse Characteristics

REVERSE CURRENT I_R (nA) vs REVERSE VOLTAGE V_R (V)

Ta=100℃, Ta=25℃

Capacitance Characteristics

CAPACITANCE BETWEEN TERMINALS C_T (pF) vs REVERSE VOLTAGE V_R (V)

Ta=25℃
f=1MHz

Power Derating Curve

POWER DISSIPATION P_D (mW) vs AMBIENT TEMPERATURE T_a (℃)

A,May,2011
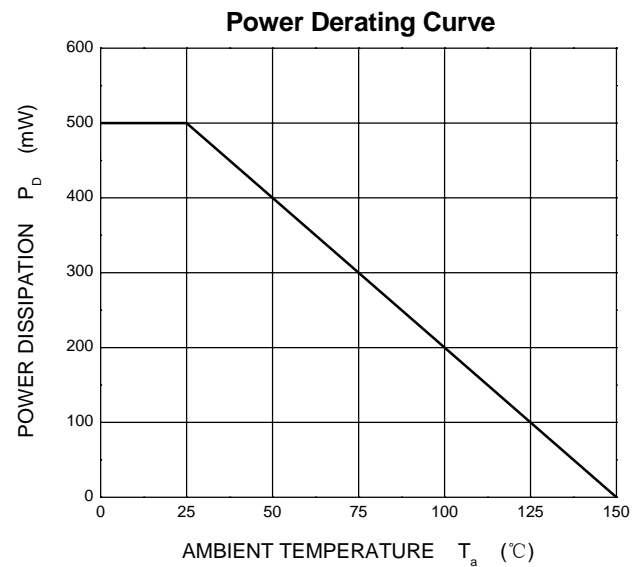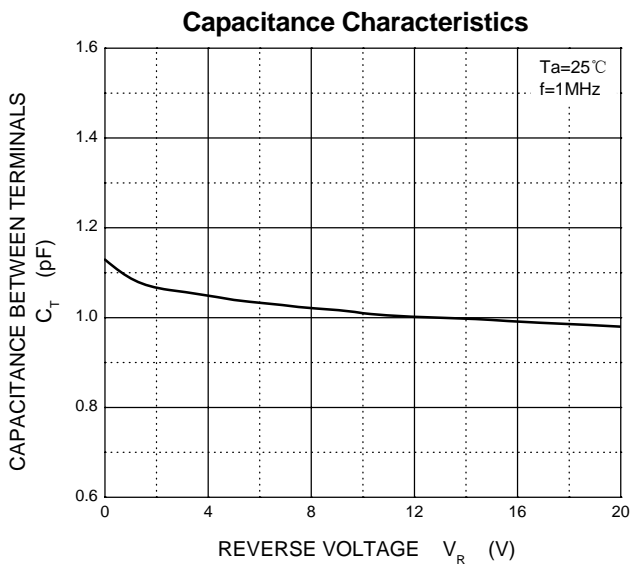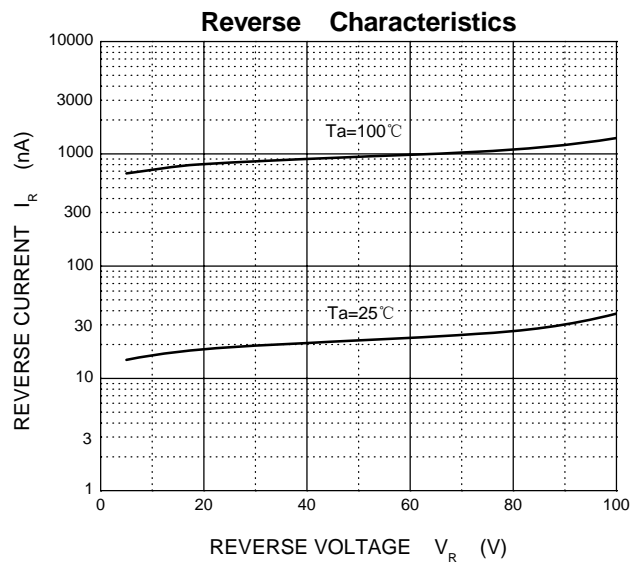
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