

SOD-123 Plastic-Encapsulate Diodes

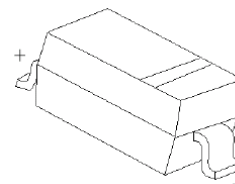
MMSD914 SMALL SIGNAL DIODE

FEATURES

- High Voltage

MARKING: 5D

SOD-123



MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ 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 @ $t=1\text{ms}$	2	
P_D	Power Dissipation	400	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	312	$^{\circ}\text{C/W}$
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^{\circ}\text{C}$

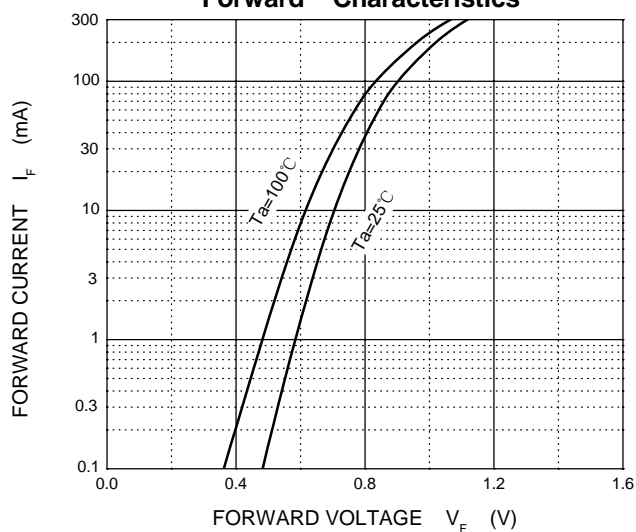
ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

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

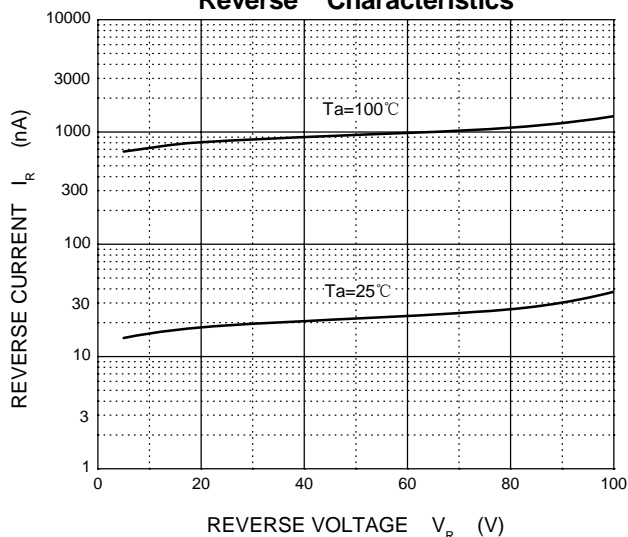
Typical Characteristics

MMSD914

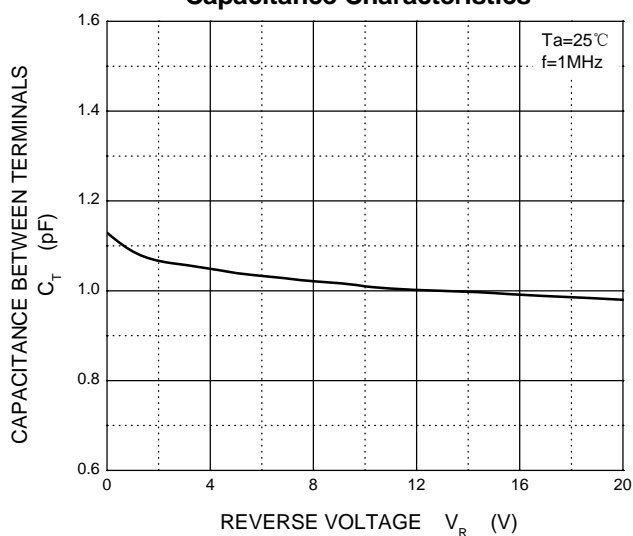
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

