

Features

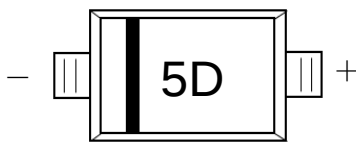
- High Voltage



SOD-123 top view



Schematic diagram



Marking and pin assignment



Halogen-Free

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	100	V
I_O	Average Rectified Output Current	0.2	A
I_{FSM}	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2	A
P_D	Power Dissipation	400	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	312	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

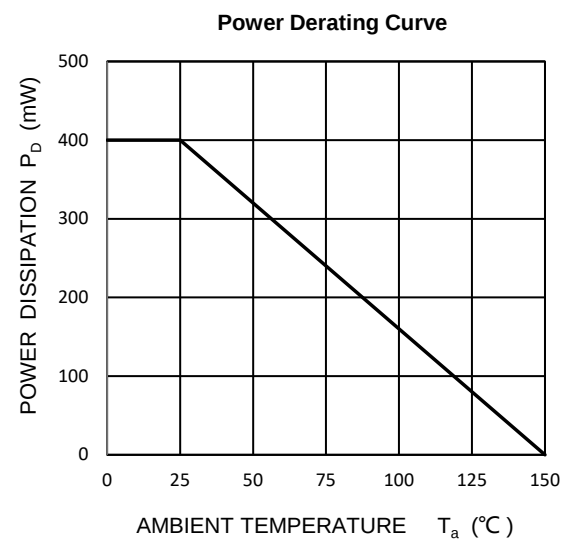
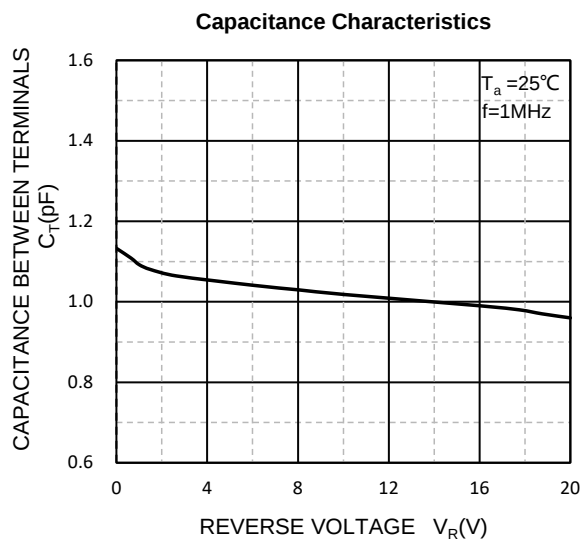
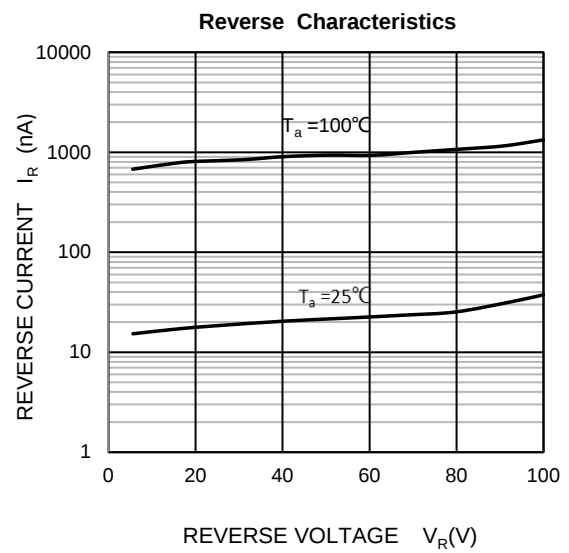
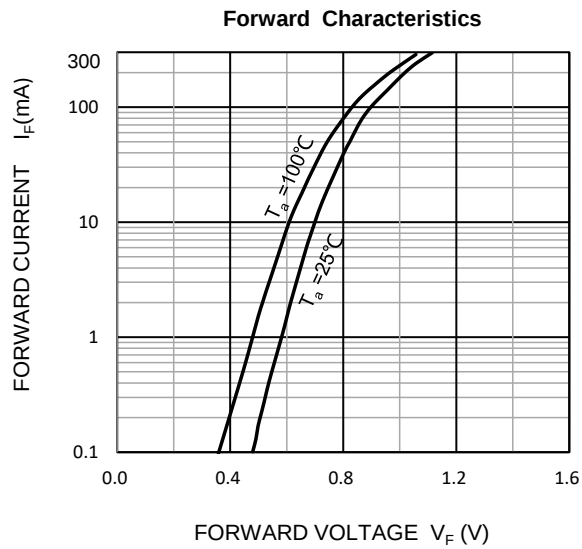
ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise spe

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

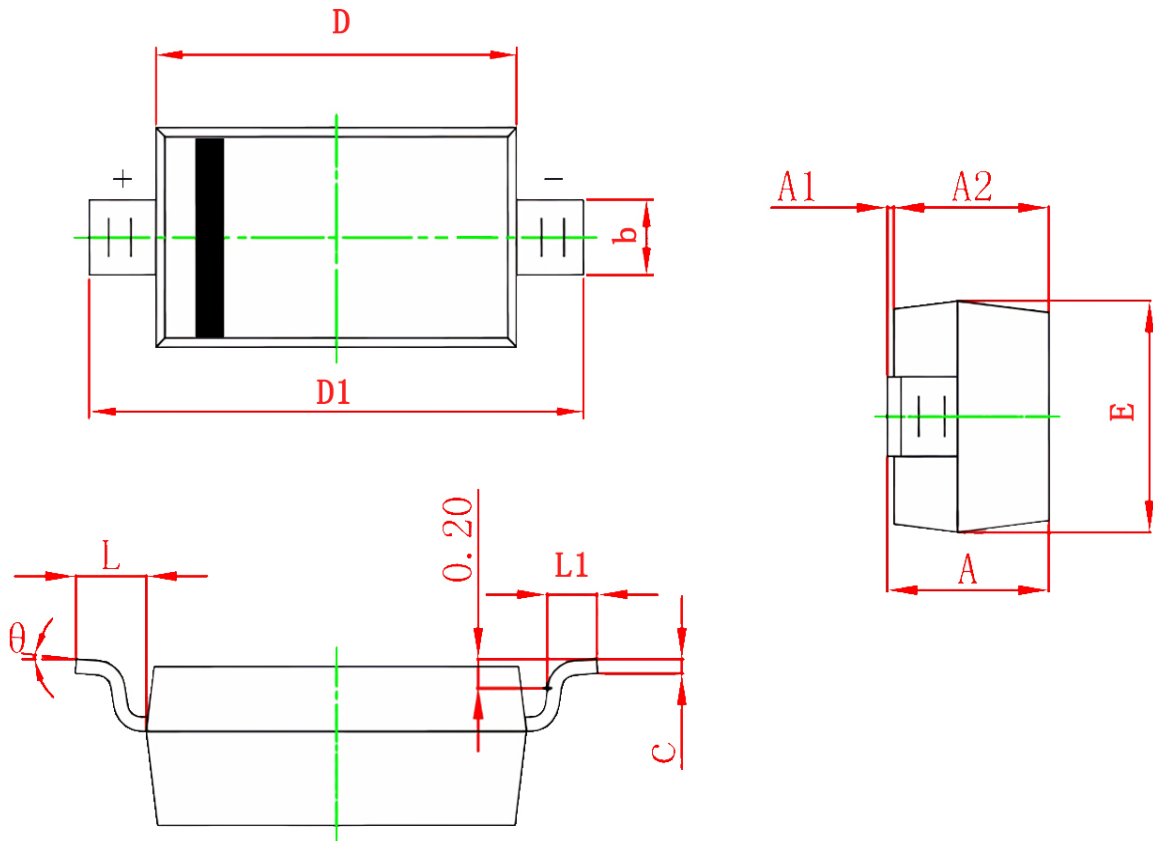
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
MMSD914	SOD-123	5D	3,000	45,000	180,000	7"reel

Typical Characteristics



SOD-123 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	2.600	2.800	0.102	0.110
D1	3.550	3.850	0.140	0.152
E	1.500	1.700	0.059	0.067
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°