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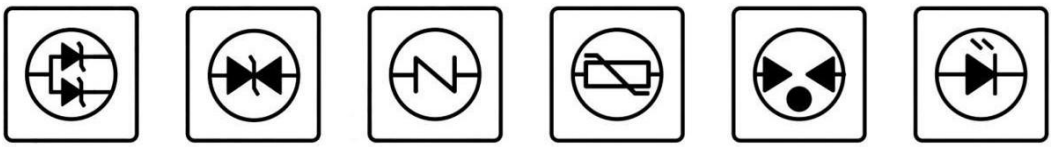
SEMICONDUCTOR



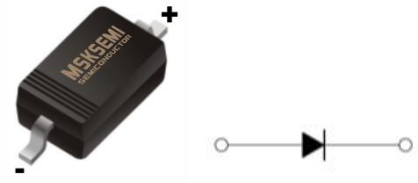
MMSD914

Product specification

FEATURES

- High Voltage

Reference News

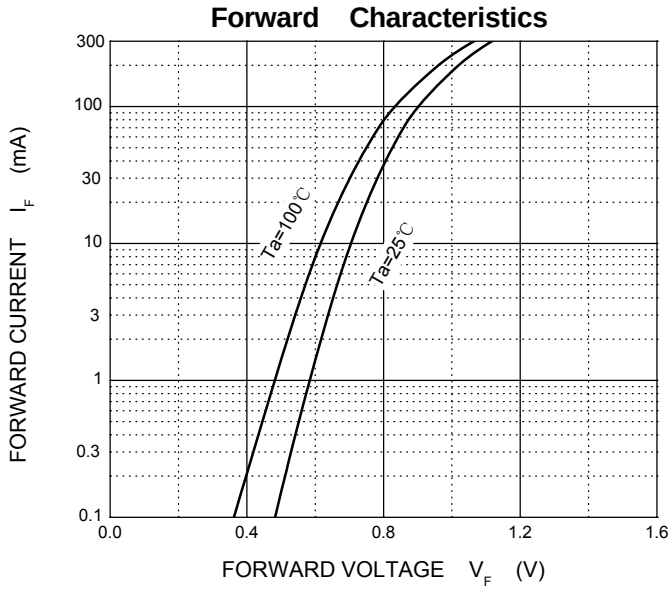
PACKAGE OUTLINE	MARKING
	5D
SOD-123	

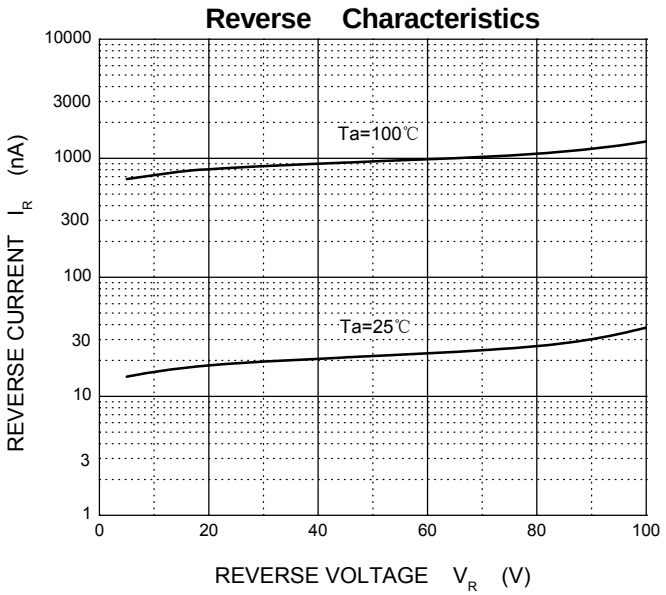
MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

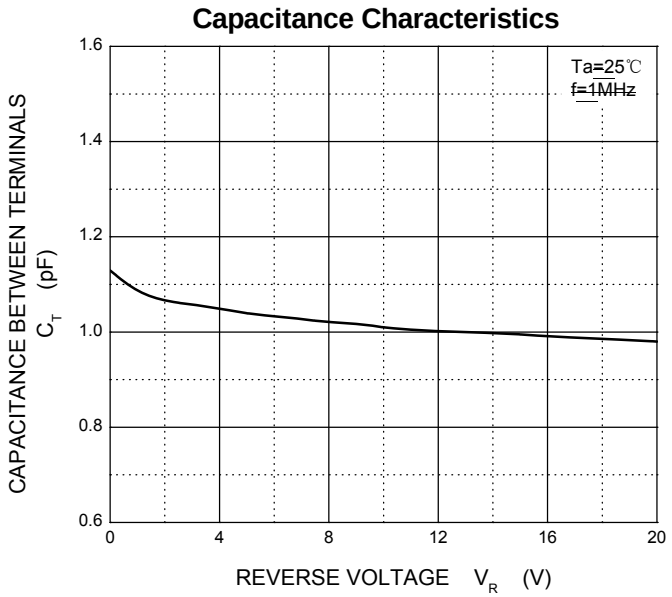
Symbol	Parameter	Value	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	100	V
I_O	Forward Current	0.2	A
I_{FSM}	Non-repetitive Peak Forward Surge Current @t= 8.3ms	2	
P_D	Power Dissipation	400	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	312	℃/W
T_j ,T_{stg}	Operation Junction and Storage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

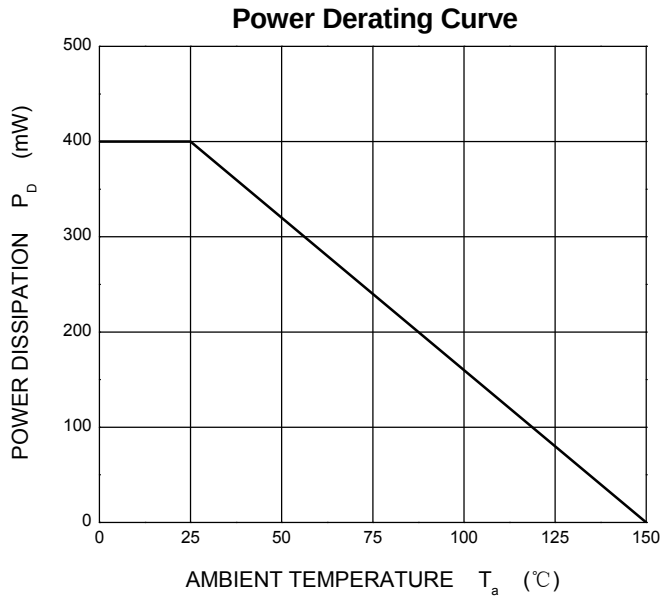
ELECTRICAL CHARACTERISTICS(Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	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=10mA, I_{rr}=0.1×I_R, R_L=100Ω			4	ns

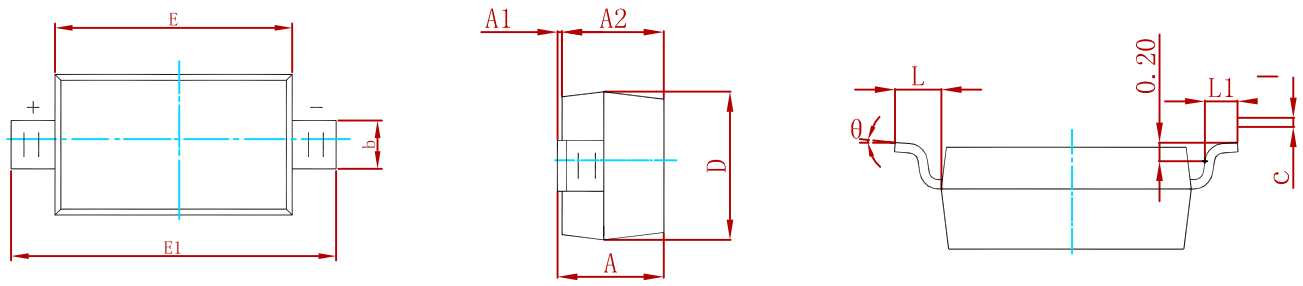






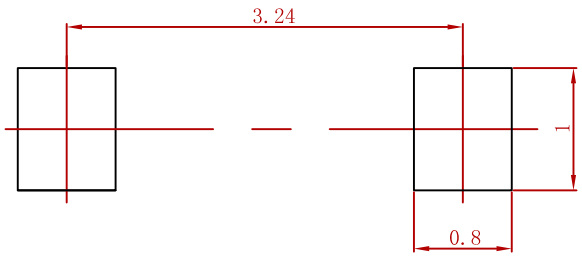


PACKAGE MECHANICAL DATA



Symbol	Dimensions In Millimeters		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	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

Suggested Pad Layout



Note:
1.Controllng dlmenslon:in mlllmeters.
2.General tolerance:± 0.05mm.
3.The pad layout Is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
MMSD914	SOD-123	3000

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