



# MMSD914

## SMALL SIGNAL DIODE

### FEATURES

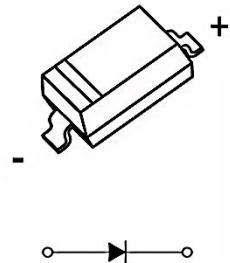
\*High Voltage

### MARKING



The marking bar indicates the cathode  
Solid dot = Green molding compound device,  
if none,the normal device.

SOD-123



### ABSOLUTE MAXIMUM RATINGS (TC=25°C, unless otherwise specified)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM	Maximum Repetitive Reverse Voltage	100	V
Io	Forward Current	0.2	A
IFSM	Non-Repetitive Peak Forward Surge Current(tp=8.3ms)	2	A
PD	Power Dissipation	400	mW
RθJA	Thermal Resistance from Junction to Ambient	312	°C/W
Tj,Tstg	Operation Junction and Storage Temperature Range	-55 ~ 150	°C

### ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise noted)

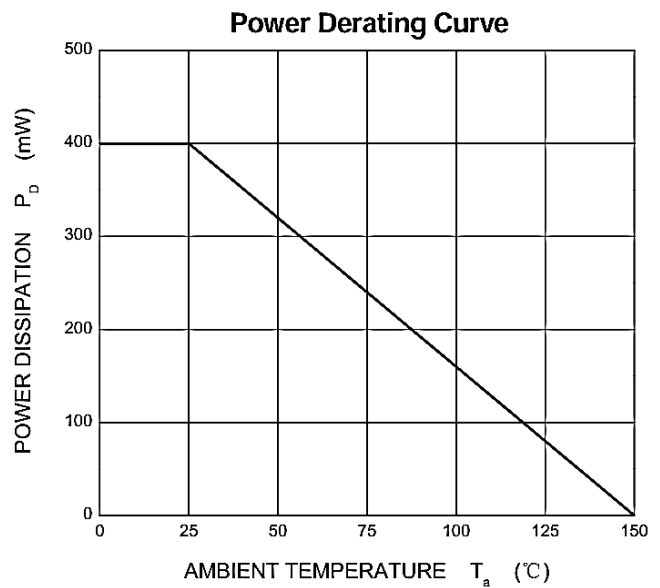
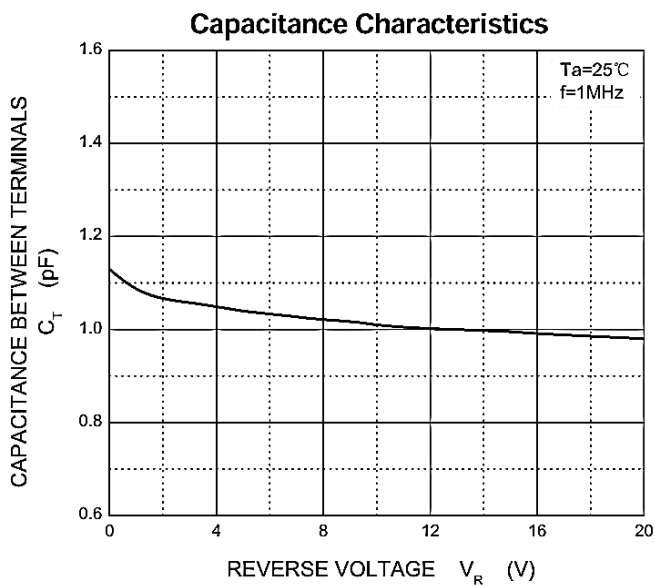
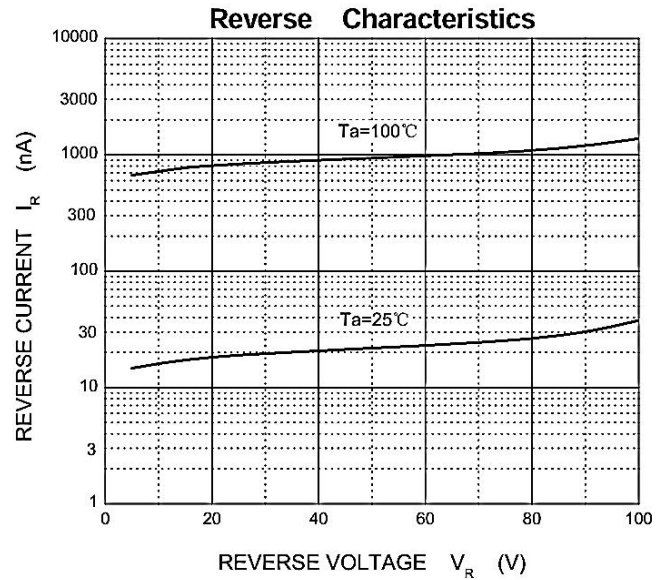
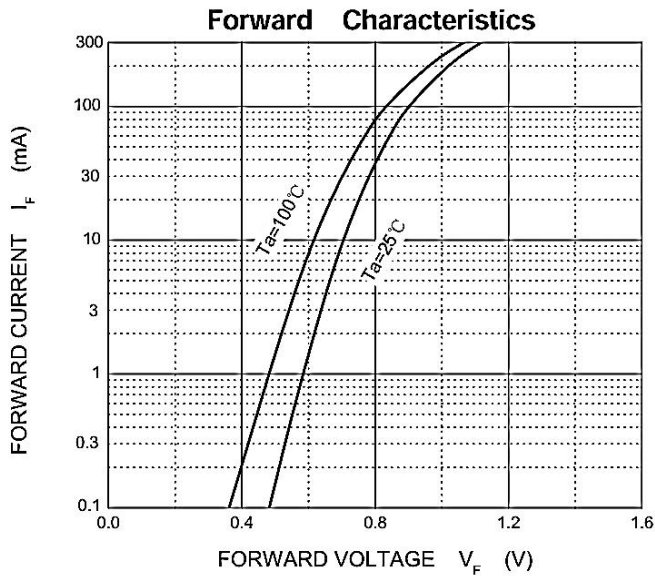
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse voltage	V(BR)	IR=100μA	100			V
Reverse current	IR	VR=20V			25	nA
		VR=75V			5	μA
Forward voltage	VF	IF=10mA			1	V
Total capacitance	CT	VR=0V,f=1MHz			4	pF
Reverse recovery time	trr	IF=IR=10mA , Irr=0.1×IR,,RL=100Ω			4	ns



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## TYPICAL CHARACTERISTICS

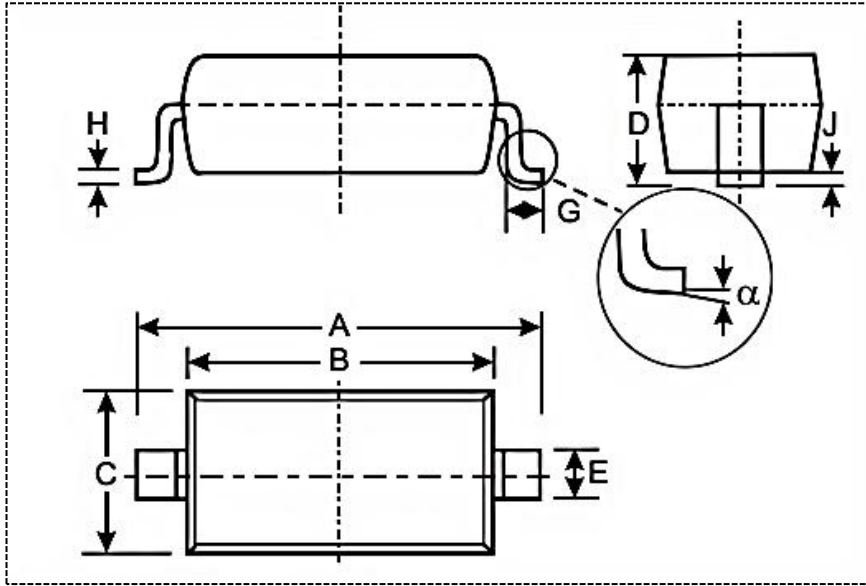




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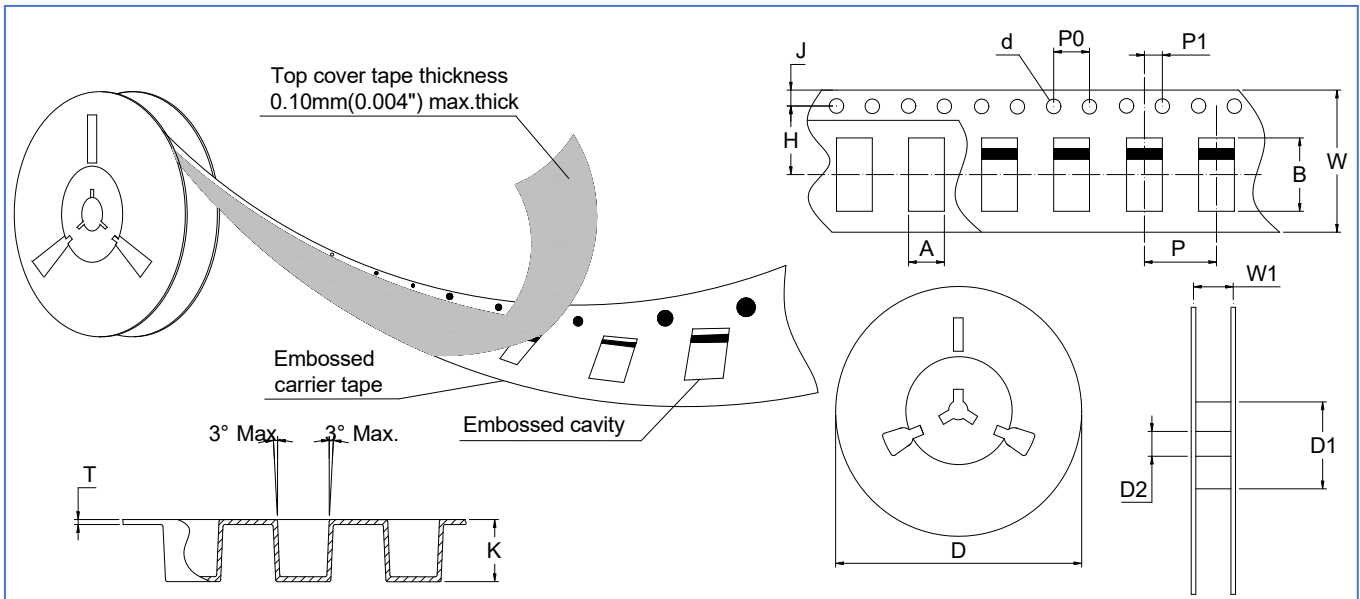
## SMALL SIGNAL DIODE

### SOD-123 PACKAGE OUTLINE DIMENSIONS



SOD-123		
Dim	Min	Max
A	3.55	3.85
B	2.60	2.80
C	1.50	1.70
D	—	1.20
E	0.55 Typical	
G	0.25	—
H	0.10 Typical	
J	—	0.10
$\alpha$	0°	8°
All Dimensions in mm		

### REEL PACKING



SYMBOL	A	B	d	D*	D1	D2	J	H	K	P	P0	P1	T	W	W1
	Max.	Max.	Typ.	/	Min.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Min.
mm(inch)															
<b>SOD123</b>	2.1 (0.083)	4 (0.157)	Φ1.55 (0.061)	330/178 (13/7)	50 (1.969)	13 (0.512)	1.75 (0.069)	3.50 (0.138)	1.60 (0.063)	4.00 (0.157)	4.00 (0.157)	2.00 (0.079)	0.25 (0.010)	8.15 (0.321)	10.5 (0.413)

\*NOTE: D=13inch Q.TY PER REEL=10K ; D=7inch Q.TY PER REEL=3K