



# MMSD914

## Features

- Compact surface mount with same footprint as Minimef
- 400 milliwatt Power Dissipation package
- High Breakdown Voltage, Fast Switching Speed
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking : 5D
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## 400mW Fast Switching Diodes

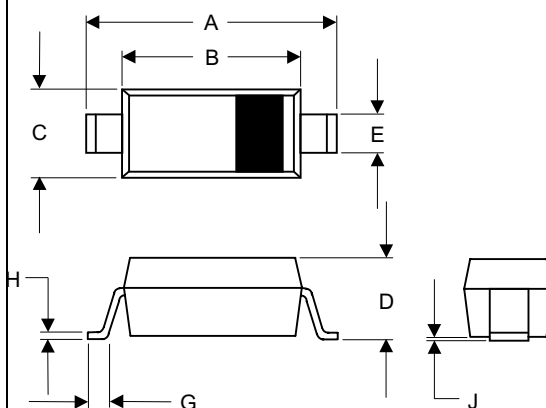
## Maximum Ratings

Symbol	Rating	Rating	Unit
$W_{IV}$	Working Inverse Voltage	75	V
$I_{FM}$	Forward Continuous Current	600	mA
$I_O$	Average Rectified Output Current	200	mA
$I_{FSM}$	Peak Forward Surge Current @1.0 $\mu$ s @1.0s	2.0	A
		1.0	A
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	312	$^{\circ}C/W$
$P_D$	Power dissipation	400	mW
$T_J$	Junction Temperature	-55 to +150	$^{\circ}C$
$T_{STG}$	Storage Temperature	-55 to +150	$^{\circ}C$

## Electrical Characteristics @ 25°C Unless Otherwise Specified

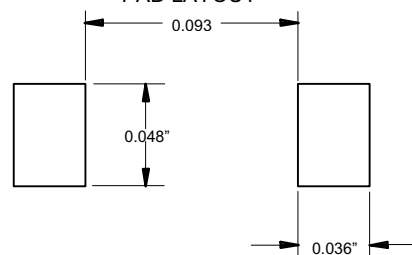
Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	100V 75V		$I_R=100 \mu A$ $I_R=5 \mu A$
$I_R$	Reverse Voltage Leakage Current		5 $\mu A$ 25nA	$V_R=75V$ $V_R=20V$
$V_F$	Forward Voltage		1.0V	$I_F=10mA$
$C_T$	Total Capacitance		4pF	$V_R=0V, f=1MHz$
$t_{rr}$	Reverse Recovery Time		4ns	$V_R=6V, I_{rr}=0.1x I_R$ $I_F=I_R=10mA$

## SOD123



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

## SUGGESTED SOLDER PAD LAYOUT





TM

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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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