

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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

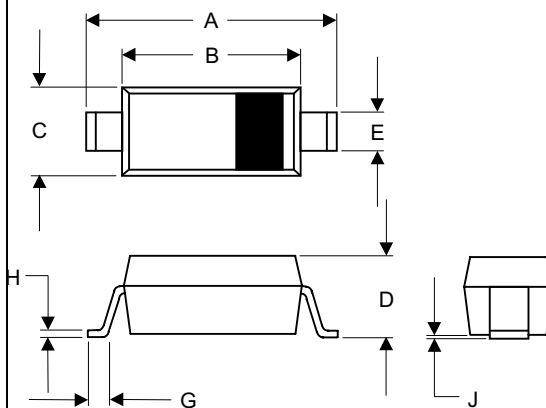
## Maximum Ratings

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

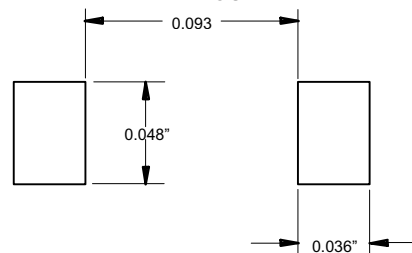
Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	100V 75V		$I_R=100 \mu A$ $I_R=5 \mu A$
$I_R$	Reverse Voltage Leakage Current		5 $\mu A$ 25nA	$V_R=75V$ $V_R=20V$
$V_F$	Forward Voltage		1.0V	$I_F=10mA$
$C_T$	Total Capacitance		4pF	$V_R=0V, f=1MHz$
$t_{rr}$	Reverse Recovery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

Micro Commercial Components

### 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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