



MMSD914

Features

- Compact surface mount with same footprint as Minimelf
- 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

Maximum Ratings

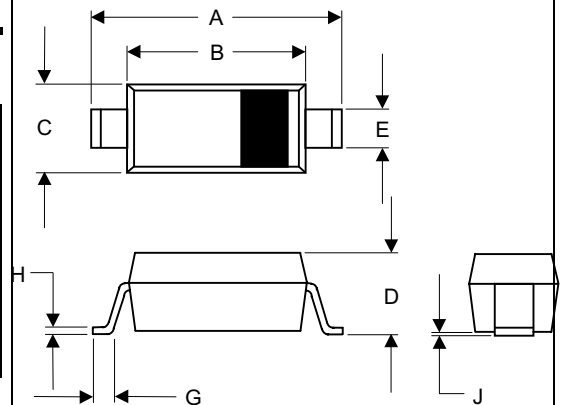
Symbol	Rating	Rating	Unit
W_{IV}	Working Inverse Voltage	75	V
I_{FM}	Forward Continuous Current	600	mA
I_O	Average Rectified Output Current	200	mA
I_{FSM}	Peak Forward Surge Current @1.0 μ s @1.0s	2.0 1.0	A
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	312	$^{\circ}\text{C}/\text{W}$
P_D	Power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

Electrical Characteristics @ 25 $^{\circ}\text{C}$ Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	100V 75V		$I_R=100 \mu\text{A}$ $I_R=5 \mu\text{A}$
I_R	Reverse Voltage Leakage Current		5 μA 25nA	$V_R=75\text{V}$ $V_R=20\text{V}$
V_F	Forward Voltage		1.0V	$I_F=10\text{mA}$
C_T	Total Capacitance		4pF	$V_R=0\text{V}$, $f=1\text{MHz}$
t_{rr}	Reverse Recovery Time		4ns	$I_F=I_R=30\text{mA}$, $I_{rr}=0.1 \times I_R$ $R_L=100\Omega$

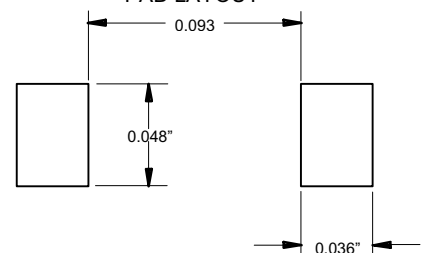
400mW Fast Switching Diodes

SOD123

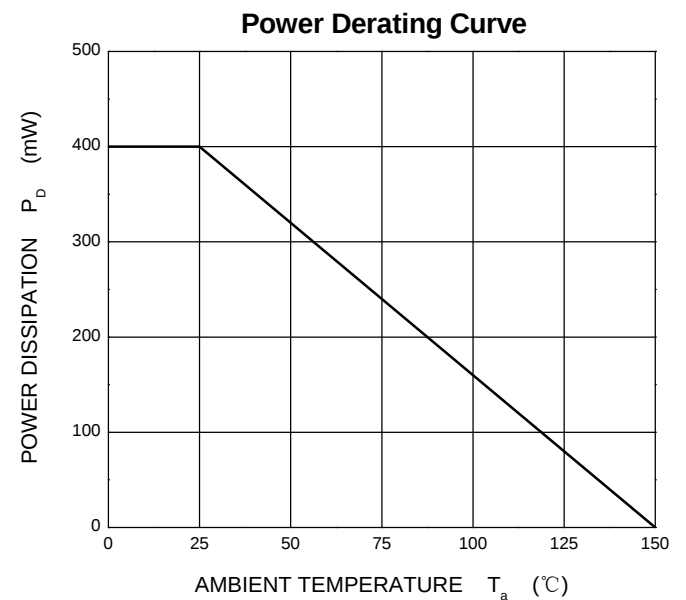
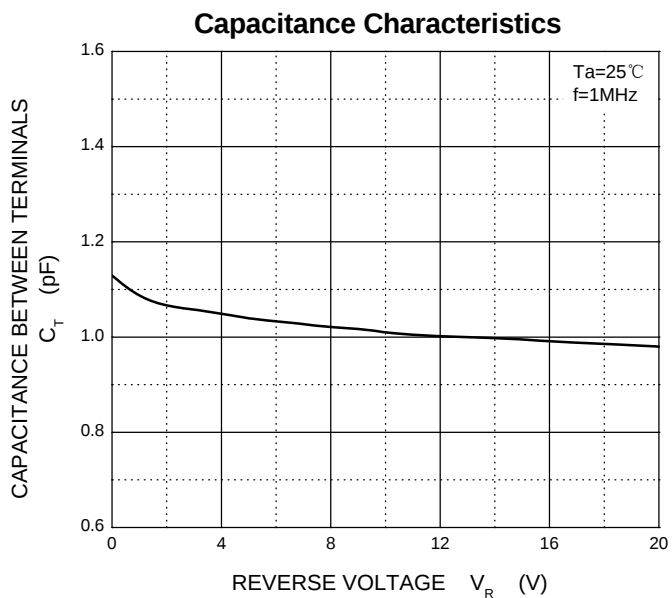
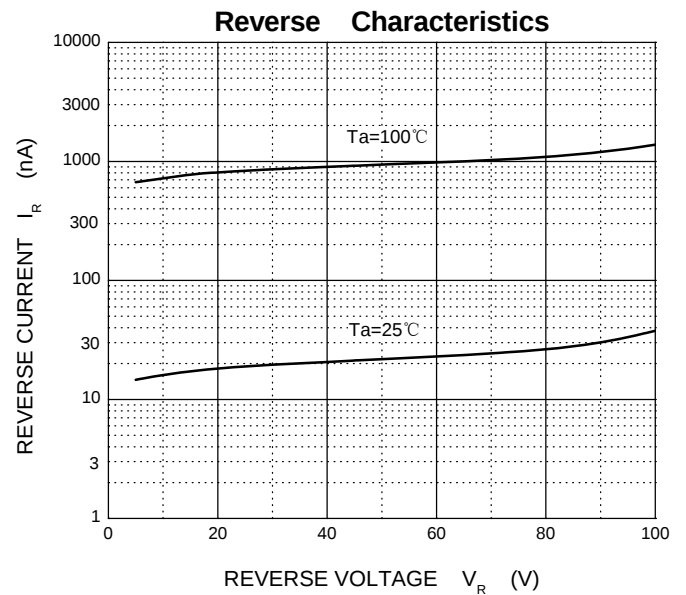
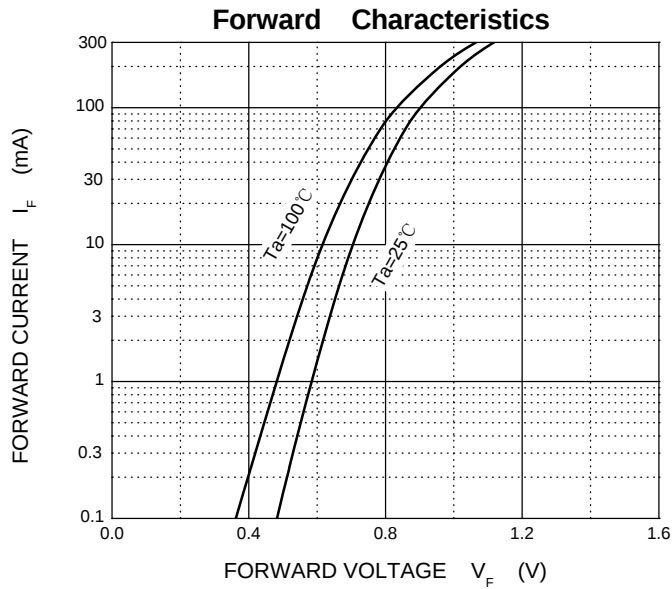


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

SUGGESTED SOLDER PAD LAYOUT



Typical Characteristics





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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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