



1N4148WL

High Speed Switching Diode 400mW

Features

- Halogen free available upon request by adding suffix "-HF"
- Fast switching speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For general purpose switching applications
- High conductance
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Marking Code: D1

Absolute maximum Ratings

Symbol	Parameter	Rating	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	75	V
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
I_{FM}	Peak Forward Current	300	mA
I_O	Average Rectified Output Current	150	mA
I_{FSM}	Forward Surge Current @1us	2	A
P_D	Power Dissipation	400	mW
T_J	Operating Junction Temperature	-65 to +150	°C
T_{STG}	Storage Temperature	-65 to +150	°C

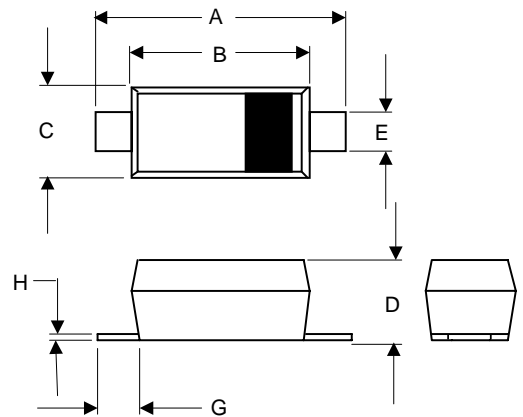
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

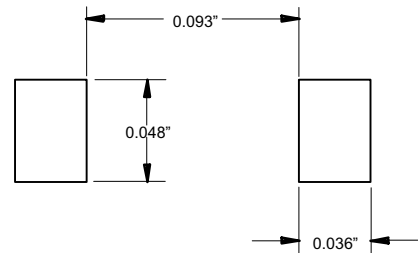
B_V	Breakdown Voltage ($I_R=100\mu A$) ($I_R=5\mu A$)	100 75	---	Vdc
V_F	Forward Voltage Drop ($I_F=5mA$) ($I_F=10mA$) ($I_F=100mA$)	0.62 ---	0.72 1.0 1.00	Vdc
I_R	Reverse Current ($V_R=75Vdc, T=25^\circ C$) ($V_R=20Vdc, T=25^\circ C$)	---	5.0 0.025	μA
C_T	Total Capacitance ($V_R=0Vdc, f=1.0MHz$)	---	4.0	pF
T_{rr}	Reverse Recovery Time ($I_{rr}=1mA, I_F=10mA, I_R=60mA, R_L=100\Omega$)	---	4.0	ns

SOD-123FL



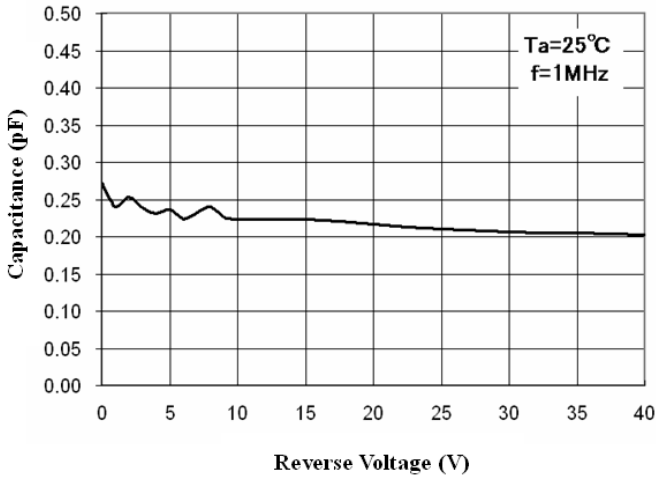
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.130	.152	3.30	3.85	
B	.098	.122	2.50	3.10	
C	.055	.075	1.40	1.90	
D	.031	.053	0.80	1.35	
E	.020	.041	0.50	1.05	
G	.010	-----	0.25	-----	
H	-----	.010	----	.25	

SUGGESTED SOLDER PAD LAYOUT

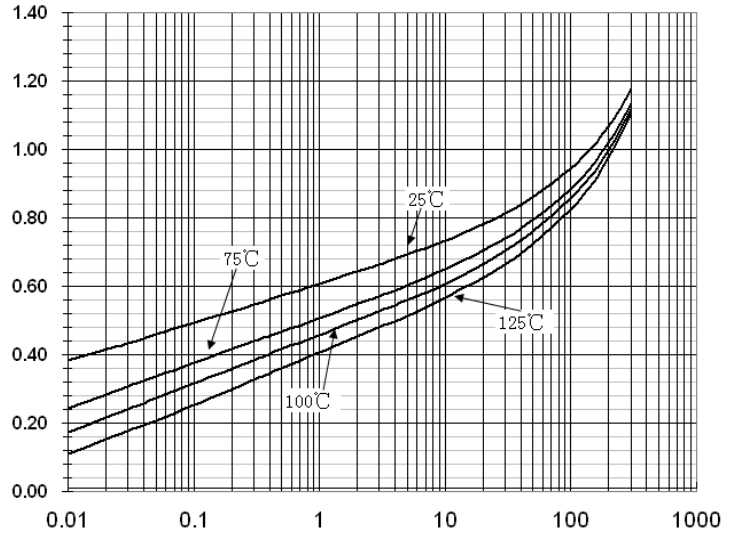


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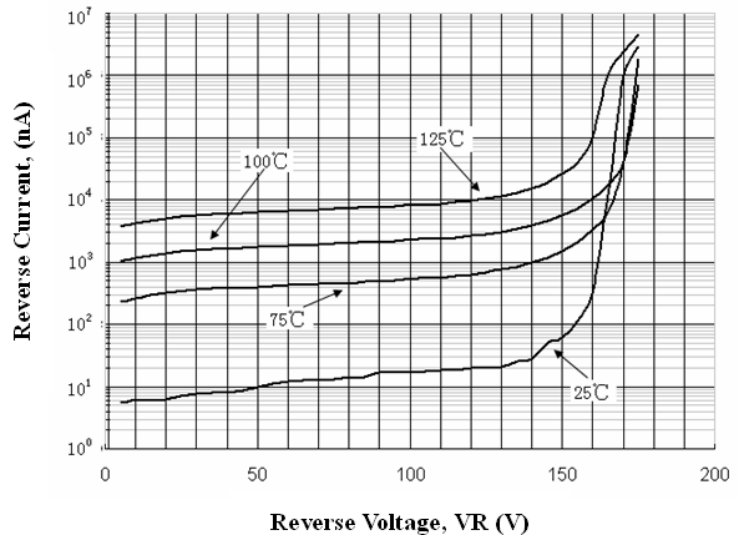
Total Capacitance



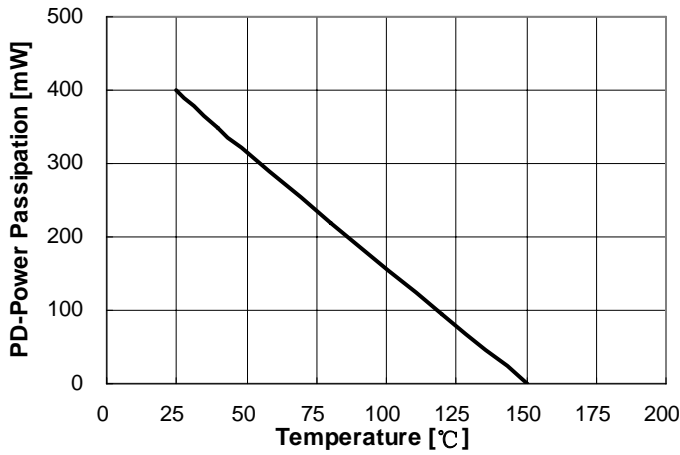
Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage



Power Derating Curve





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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