



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

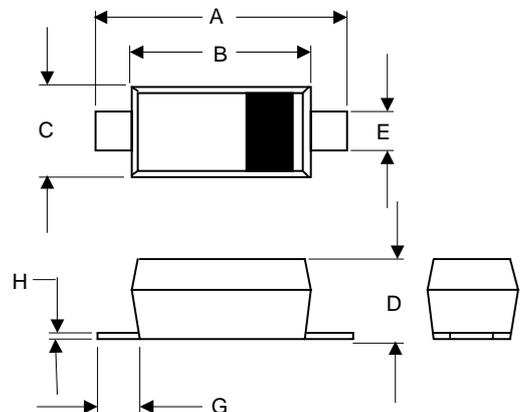
Absolute maximum Ratings

Symbol	Parameters	Rating	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	100	V
V_{RWM}	Working Peak Reverse Voltage	100	V
V_R	DC Blocking Voltage	100	V
$V_{R(RMS)}$	RMS Reverse Voltage	71	V
I_{FM}	Peak Forward Current	300	mA
I_O	Average Rectified Output Current	150	mA
I_{FSM}	Forward Surge Current @1 μ s	2	A
P_D	Power Dissipation	400	mW
T_J	Operating Junction Temperature	-65 to +150	$^{\circ}$ C
T_{STG}	Storage Temperature	-65 to +150	$^{\circ}$ C

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

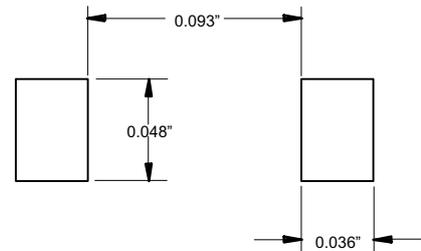
Symbol	Parameters	Min	Max	Units
B_V	Breakdown Voltage ($I_R=100\mu$ A dc) ($I_R=5\mu$ A dc)	100 75	---	Vdc
V_F	Forward Voltage Drop ($I_F=5$ mA dc) ($I_F=10$ mA dc) ($I_F=100$ mA dc)	---	0.72 1.0 1.00	Vdc
I_R	Reverse Current ($V_R=75$ V dc, $T=25^{\circ}$ C) ($V_R=20$ V dc, $T=25^{\circ}$ C)	---	1.0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

SOD-123FL



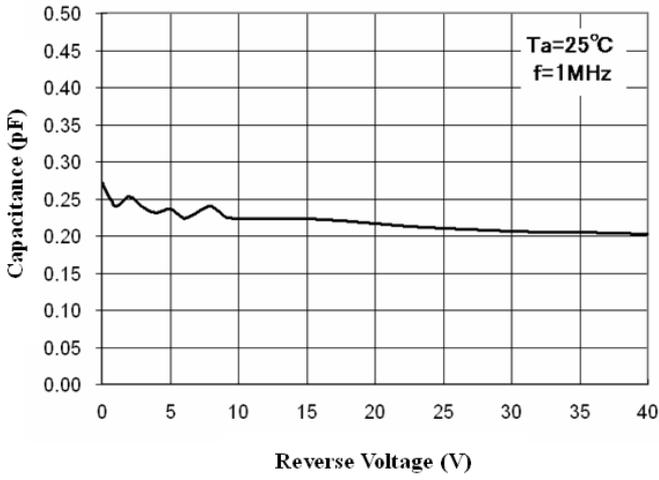
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.130	.152	3.30	3.85	
B	.098	.122	2.50	3.10	
C	.055	.075	1.40	1.90	
D	.031	.053	0.80	1.35	
E	.020	.041	0.50	1.05	
G	.010	-----	0.25	-----	
H	-----	.010	----	.25	

SUGGESTED SOLDER PAD LAYOUT

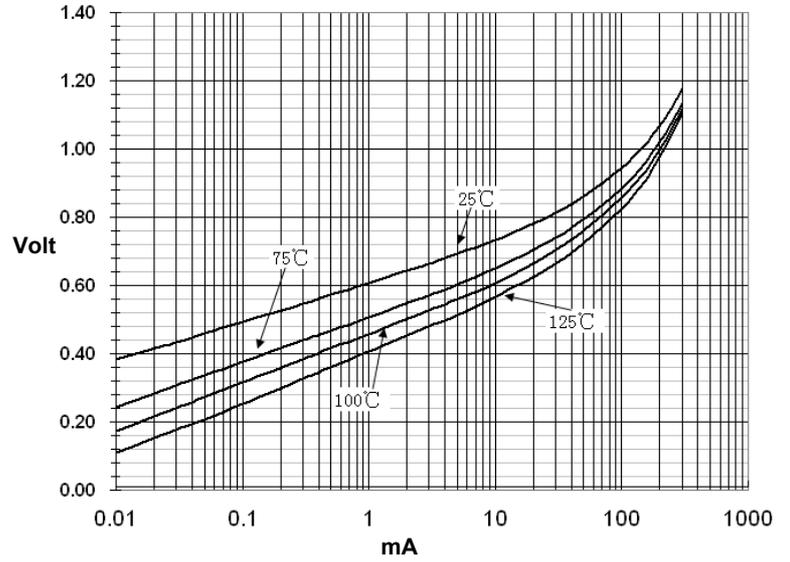


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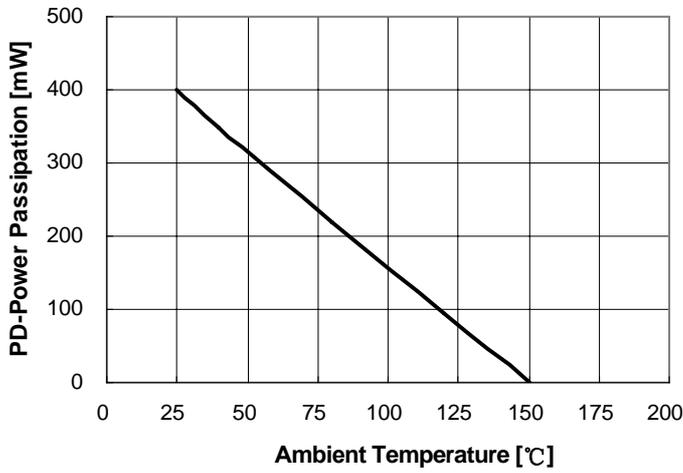
Total Capacitance



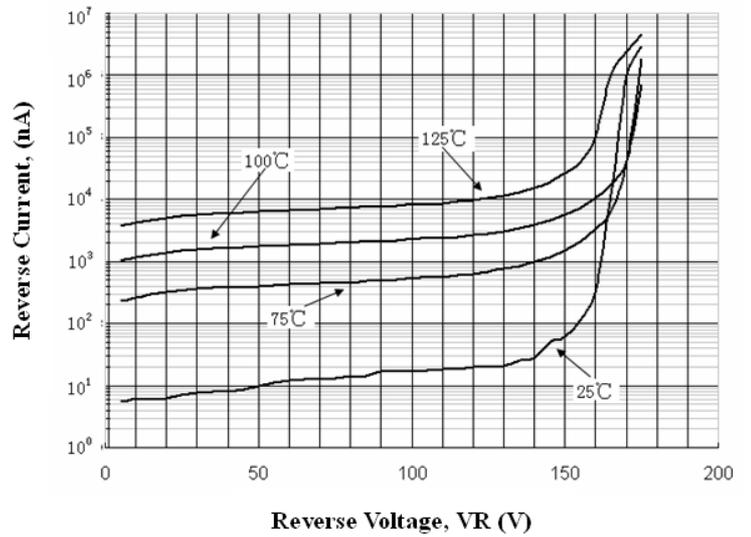
Forward Voltage vs Ambient Temperature



Power Derating Curve



Reverse Current vs Reverse Voltage





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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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