



Micro Commercial Components

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# F1N4148W

## High Speed Switching Diode 200mW

- Fast switching speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For general purpose switching applications
- High conductance

### Mechanical Data

- ∅ Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Clip Bonding Construction, Good Thermal Capability
- Band Indicates Cathode
- RoHS Compliant
- ∅ Marking Code: D1

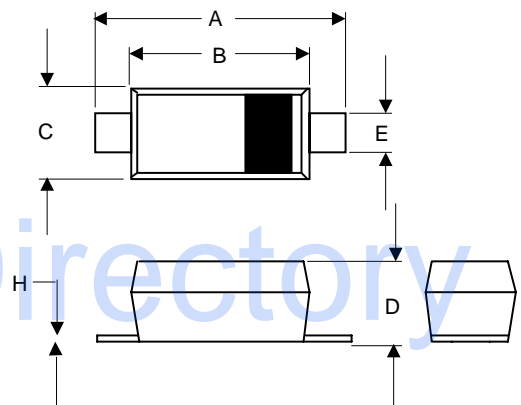
### Maximum Ratings @ 25°C Unless Otherwise Specified

Reverse Voltage	$V_R$	75	V
Peak Reverse Voltage	$V_{RM}$	100	V
Continuous Forward Current	$I_o$	150	mA
Repetitive Peak Forward Current	$I_{FRM}$	300	mA
Power Dissipation	$P_D$	400	mW
Thermal Resistance	$R_{JA}$	650	K/W
Operation/Storage Temp. Range	$T_j, T_{STG}$	-65 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

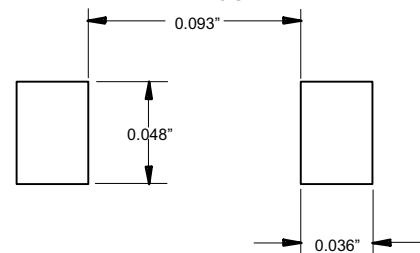
Maximum Instantaneous Forward Voltage	$V_F$	1.0V	$I_{FM} = 10mA;$ $T_J = 25°C^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	25nA	$V_R = 20Volts$ $T_J = 25°C$
		5.0uA	$V_R = 75V, T_J = 25°C$
Typical Junction Capacitance	$C_J$	4pF	$V_R = 0V, f = 1MHz$
Breakdown Voltage	$B_V$	100	$I_R = 100uA$
		75	$I_R = 5uA$
Maximum Reverse Recovery Time	$T_{rr}$	4nS	$I_F = 10mA$ $V_R = 6V$ $R_L = 100\Omega$

### SOD123



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.098	.106	2.50	2.70	
C	.059	.067	1.50	1.70	
D	.031	.039	0.80	1.00	
E	.020	.028	0.50	0.70	
H	.002	.008	0.05	0.20	

### SUGGESTED SOLDER PAD LAYOUT





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## Ordering Information

Device (Part Number)-TP	Packing Tape&Reel;3Kpcs/Reel
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