

TM

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

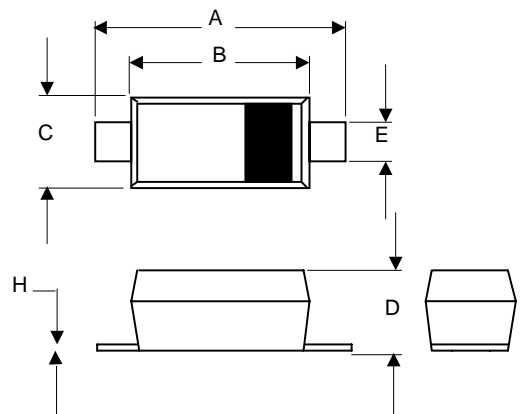
Maximum Ratings @ 25°C Unless Otherwise Specified

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

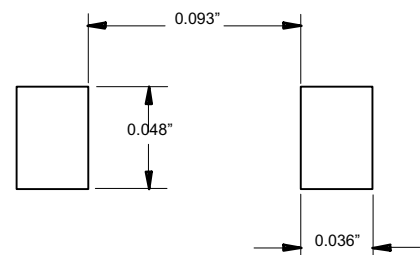
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 10mA;$ $T_J = 25°C^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25nA	$V_R = 20Volts$ $T_J = 25°C$
		5.0uA	$V_R = 75V, T_J = 25°C$
Typical Junction Capacitance	C_J	4pF	$V_R = 0V, f = 1MHz$
Breakdown Voltage	B_V	100	$I_R = 100uA$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

SOD123



DIM	INCHES		MM		NOTE
	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



Ordering Information

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

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