

1N4148W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 410mWatts

SOD-123

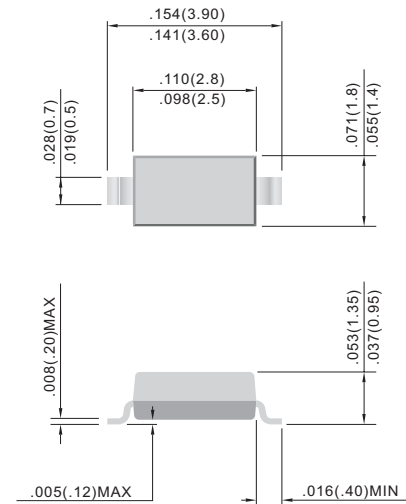
Unit: inch (mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOD-123 plastic case.
Terminals : Solderable per MIL-STD-750, Method 2026
Standard packaging: 8mm tape
Weight: approximately 0.01 gram
Marking Code: A2



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise noted)

PARAMETER	SYMBOL	1N4148W	UNITS
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
RMS Voltage	V _{RMS}	50	V
Maximum DC Blocking Voltage	V _{DC}	75	V
Maximum Average Forward Current at T _A =25°C	I _{AV}	150	mA
Peak Forward Surge Current, 1.0μs	I _{FSM}	4	A
Power Dissipation Derate Above 25°C	P _{TOT}	410	mW
Maximum Forward Voltage	V _F	0.715@0.001A 0.855@0.01A 1.0@0.05A 1.25@0.15A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	0.025@20V 2.5@75V	μA
Junction Capacitance(Notes1)	C _J	1.5	pF
Maximum Reverse Recovery (Notes2)	T _{RR}	4.0	ns
Typical Thermal Resistance	R _{θJA}	450	°C / W
Operating and Storage Temperature Range	T _J	-55 to +150	°C

NOTE:

1. C_J at V_R=0, f=1MHZ
- 2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

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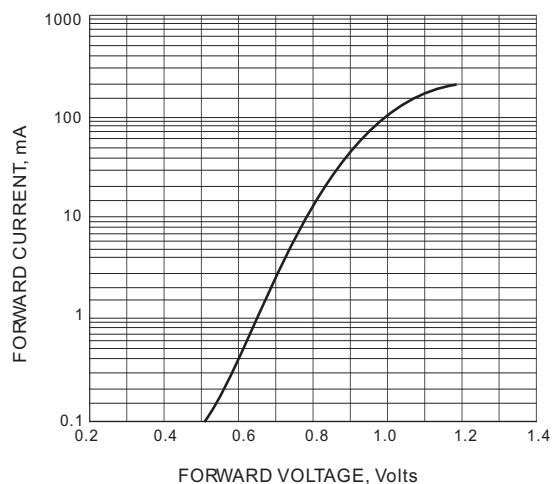


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

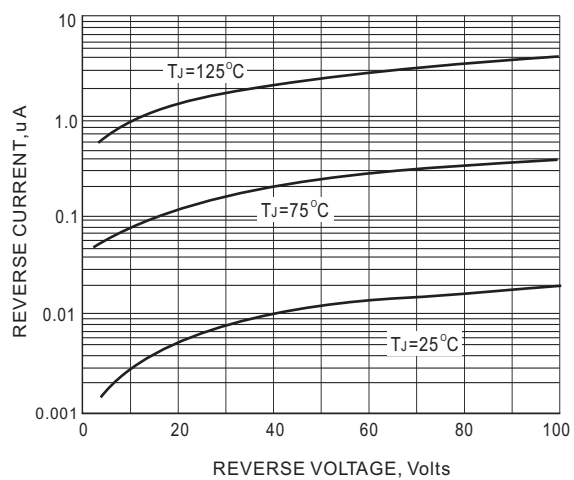


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

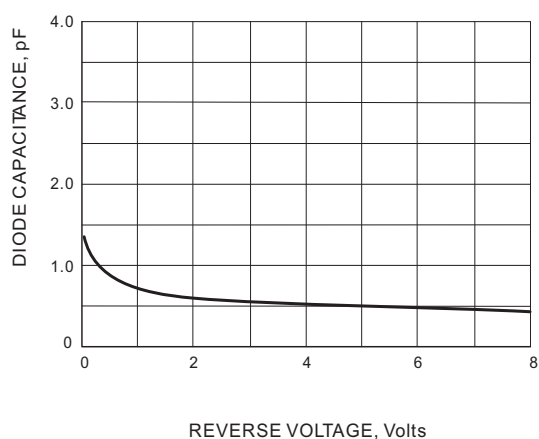


FIG. 3 TYPICAL JUNCTION CAPACITANCE

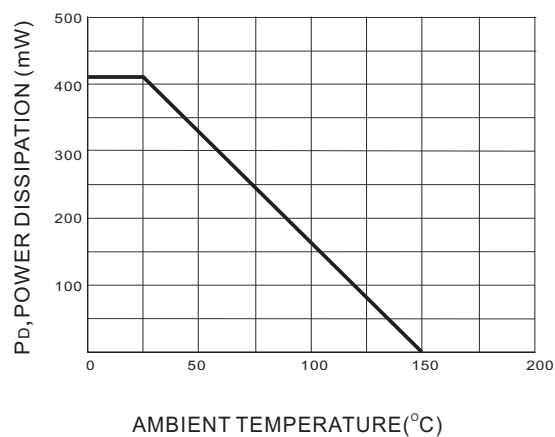


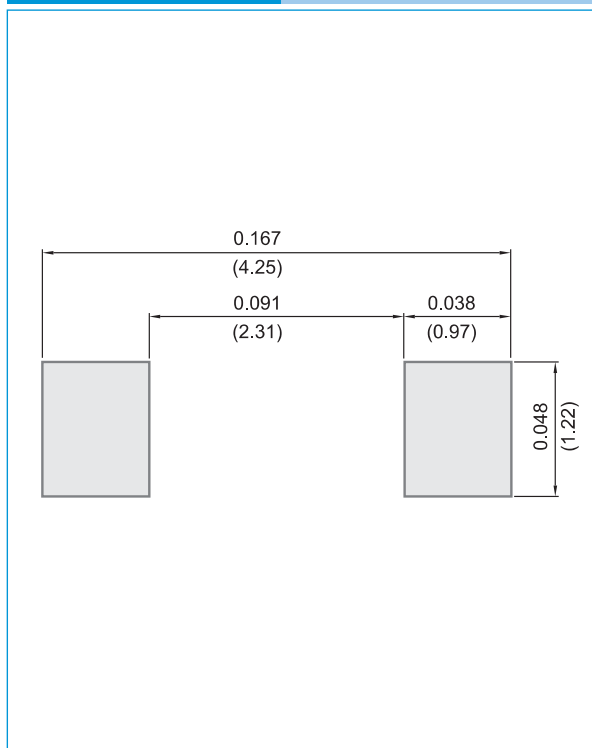
FIG. 4 POWER DERATING CURVE

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MOUNTING PAD LAYOUT

SOD-123

Unit: inch(mm)



ORDER INFORMATION

- Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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