RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

1N4148M9

Small Signal Diode / DATA SHEET

- ◇ General purpose diodes
- ◇ Fast switching devices
- ◇ **SOD923** Micro SMD package (Fig-1)
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Moisture Level Sensitivity 1
- ◇ Cathode Band / Device marking

Device Marking Code	
1N4148M9	**S1**

Maximum Ratings (Ta = 25 ℃)

Symbol	Parameter	Value	Units
V_{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Repetitive Peak Reverse Voltage	85	V
V_R	DC Blocking Voltage	85	V
I_{FRM}	Repetitive Peak Forward Current	300	mA
I_{FSM}	Non-Repetitive Peak Forward Current *1	2	A
I_O	Continuous Forward Current	100	mA
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	150	℃
T_{STG}	Storage Temperature	−55 to +150	℃

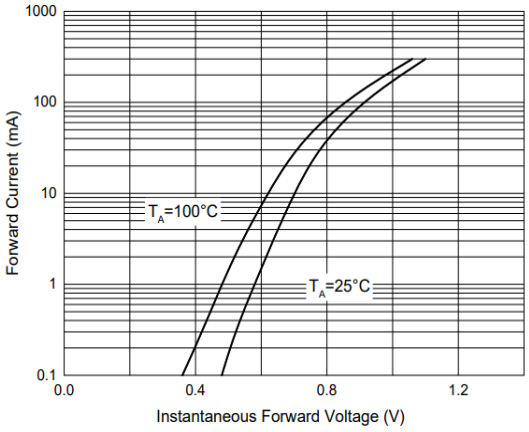
*1 Pulse width = 1 μ s

Electrical Characteristics (Ta = 25 ℃)

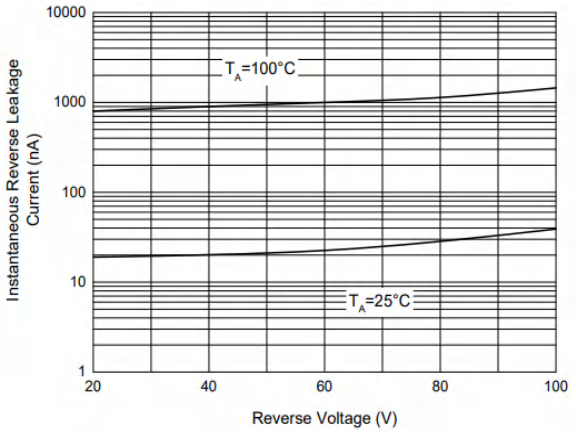
Symbol	Parameter	Conditions	Min	Max	Units
BV_R	Breakdown Voltage	I_R = 100 μ A	100		V
I_R	Reverse Current	V_R = 20V		25	nA
		V_R = 80V		100	nA
V_F	Forward Voltage	I_F = 10mA		1.0	V
		I_F = 100mA		1.2	V
C	Capacitance	V_R = 0V, f = 1MHz		3	pF
T_{RR}	Reverse Recovery Time	I_F = 10mA, V_R = 6V		4	ns
		I_{RR} = 1mA, R_L = 100 Ω			

2024-06/03
REV:B

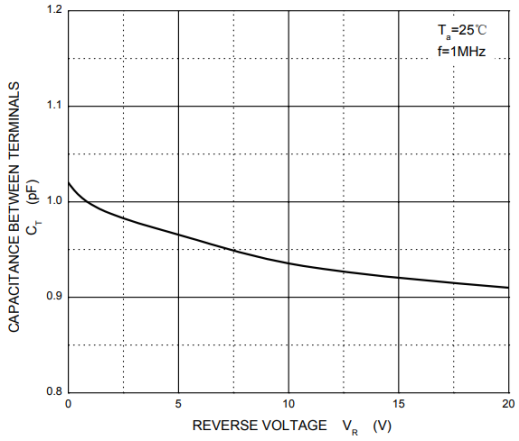
RATING AND CHARACTERISTICS CURVES (1N4148M9)



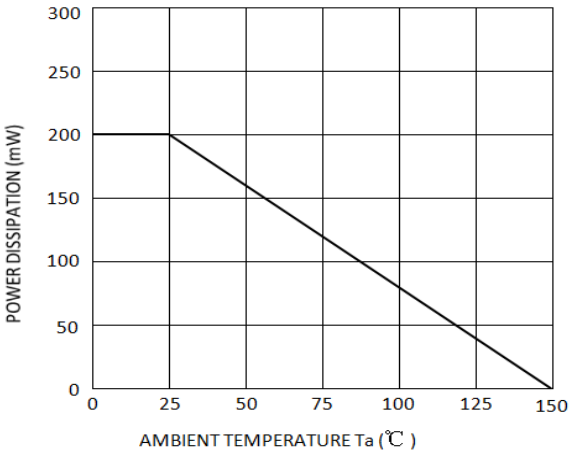
Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics



Capacitance Characteristics

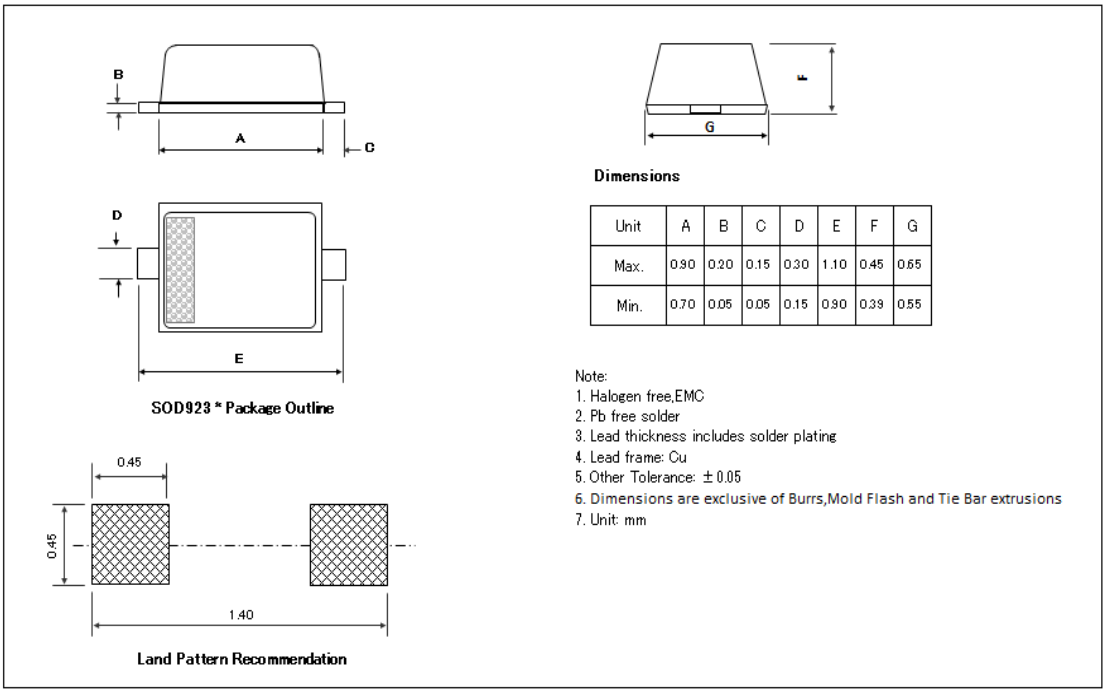


Power Derating Curve

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Package Code
1N4148M9	SOD923	Tape & Reel 8000pcs /7" Reel	8 mm	2 mm	Conductive	-T

Package Dimensions



Dimensions

Unit	A	B	C	D	E	F	G
Max.	0.90	0.20	0.15	0.30	1.10	0.45	0.65
Min.	0.70	0.05	0.05	0.15	0.90	0.39	0.55

Note:
1. Halogen free,EMC
2. Pb free solder
3. Lead thickness includes solder plating
4. Lead frame: Cu
5. Other Tolerance: ±0.05
6. Dimensions are exclusive of Burrs,Mold Flash and Tie Bar extrusions
7. Unit: mm

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