

**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	
<b>1N4148M9</b>	T4

**Maximum Ratings (Ta = 25 °C)**

Symbol	Parameter	Value	Units
$V_{RSM}$	Non-Repetitive Peak Reverse Voltage	100	V
$V_{RRM}$	Repetitive Peak Reverse 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	°C
$T_{STG}$	Storage Temperature	-55 to +150	°C

\*1 Pulse width = 1  $\mu$  s

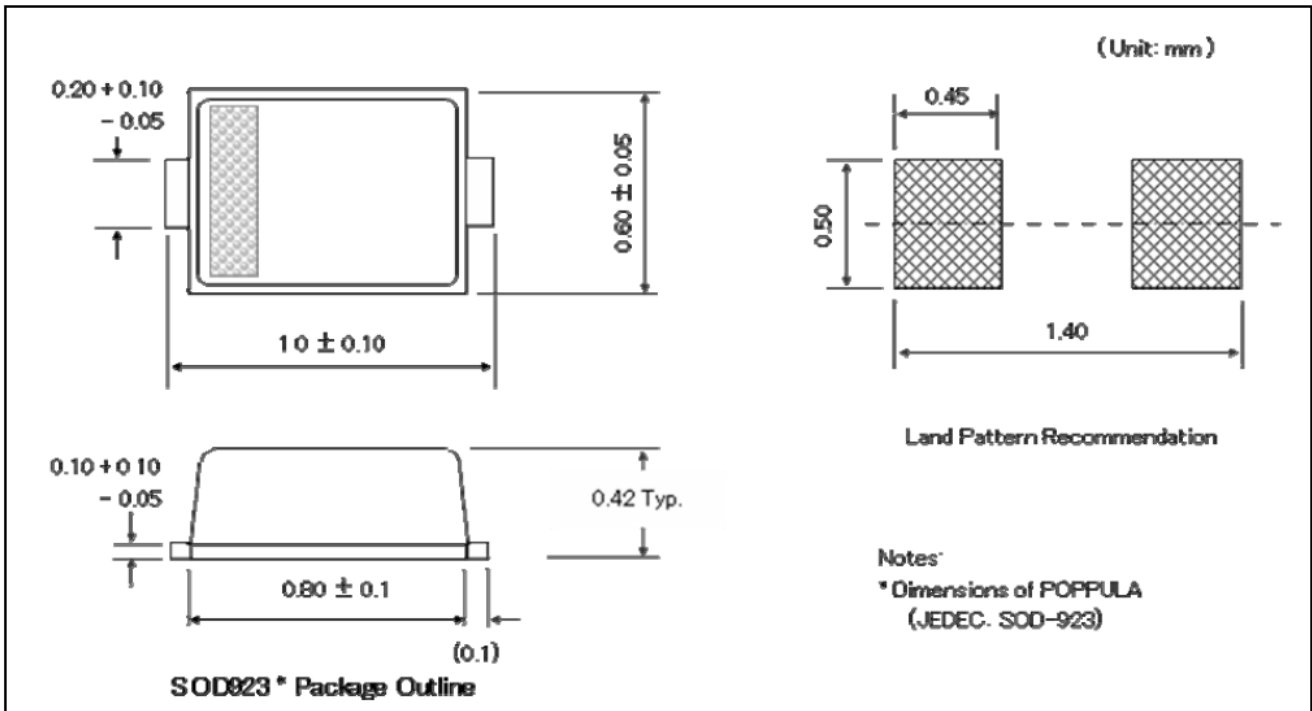
**Electrical Characteristics (Ta = 25 °C)**

Symbol	Parameter	Conditions	Min	Max	Units
$BV_R$	Breakdown Voltage	$I_R = 100 \mu A$	100		V
$I_R$	Reverse Current	$V_R = 20V$ $V_R = 75V$		25 5	nA $\mu A$
$V_F$	Forward Voltage	$I_F = 10mA$ $I_F = 100mA$		1.0 1.2	V V
C	Capacitance	$V_R = 0V, f = 1MHz$		4	pF
$T_{RR}$	Reverse Recovery Time	$I_F = 10mA, V_R = 6V$ $I_{RR} = 1mA, R_L = 100 \Omega$		4	ns

### Ordering Information

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

### Package Dimensions



## DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.