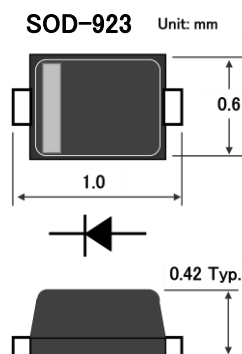




- ◇ General purpose diodes
- ◇ Fast switching devices
- ◇ **SOD-923** Micro SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking

Device Marking Code	
1N4148M9	3



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

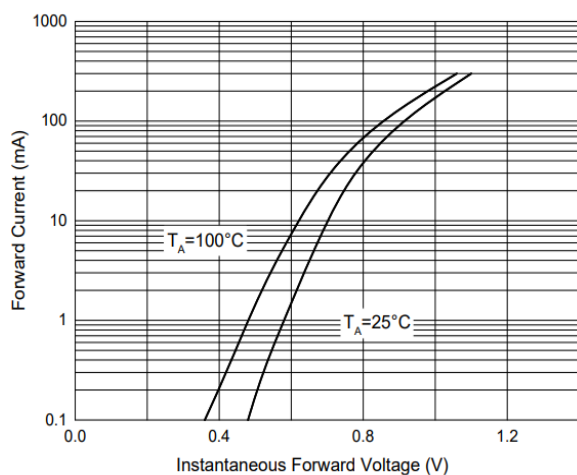
^{*1} Pulse width = 1 μ s

Electrical Characteristics (Ta = 25 °C)

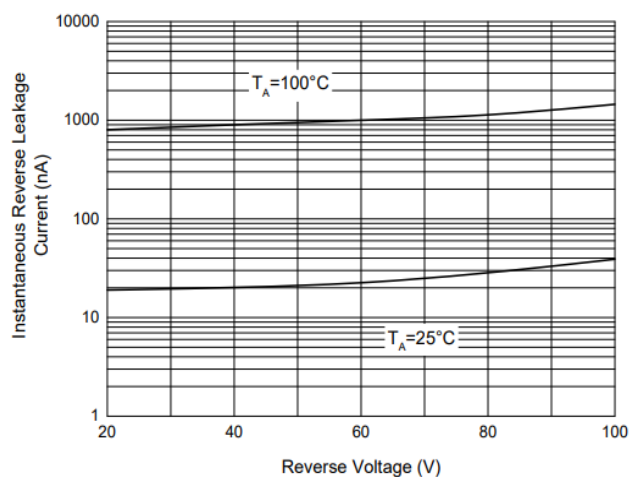
Symbol	Parameter	Conditions	Min	Max	Units
BV_R	Breakdown Voltage	$I_R = 100 \mu A$	100		V
I_R	Reverse Current	$V_R = 20V$		25	nA
		$V_R = 80V$		100	nA
V_F	Forward Voltage	$I_F = 10mA$		1.0	V
		$I_F = 100mA$		1.2	V
C	Capacitance	$V_R = 0V, f = 1MHz$		3	pF
T_{RR}	Reverse Recovery Time	$I_F = 10mA, V_R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



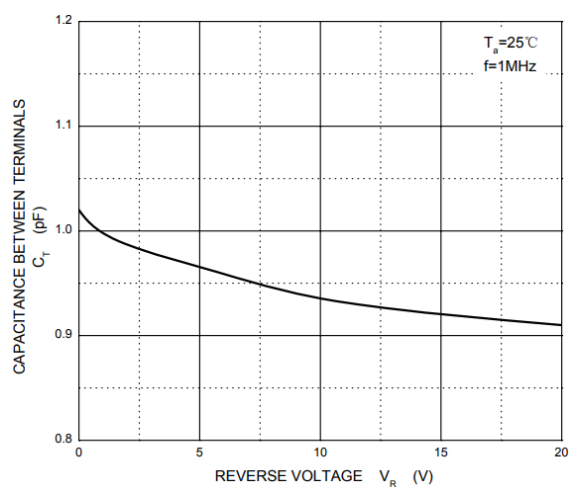
Typical Characteristics



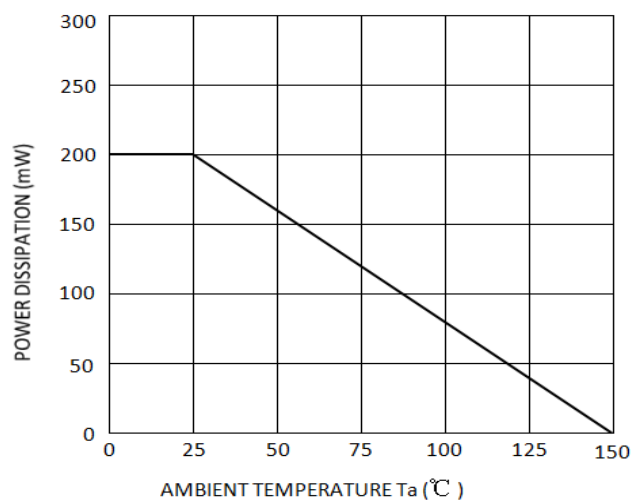
Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics



Capacitance Characteristics



Power Derating Curve



Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
1N4148M9	SOD-923	Tape & Reel 8000pcs /7" Reel	8 mm	2 mm	Conductive	

Package Dimensions

