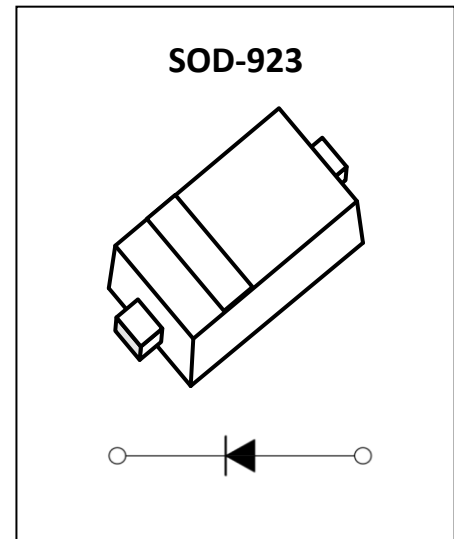


1N4148M9 Fast Switching Diodes
Feature

- V_R 85V
- I_{FAV} 100mA

Application

- Extreme fast switches

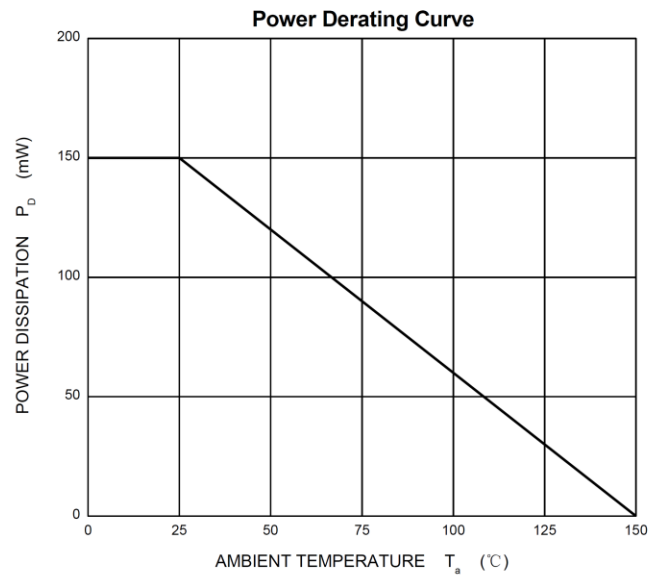
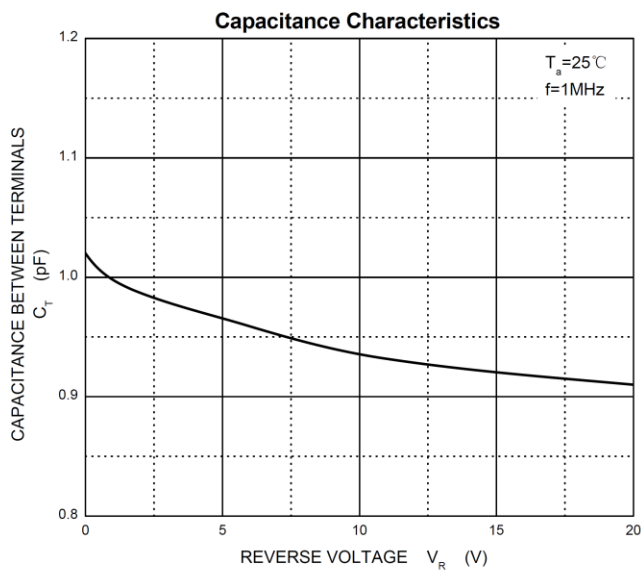
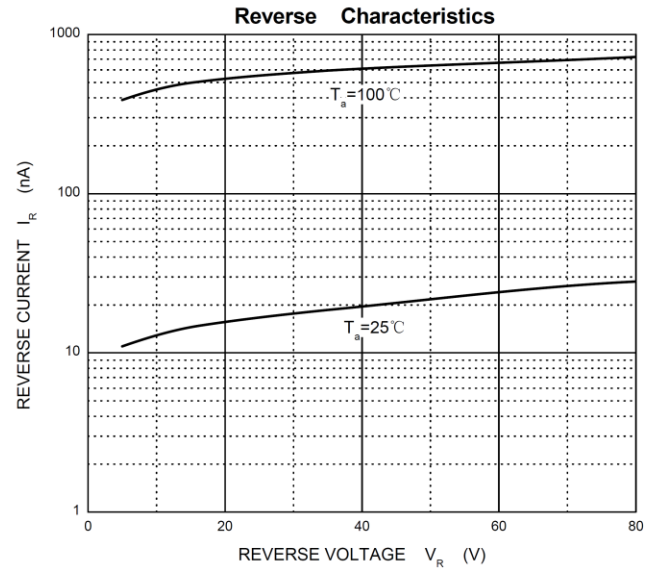
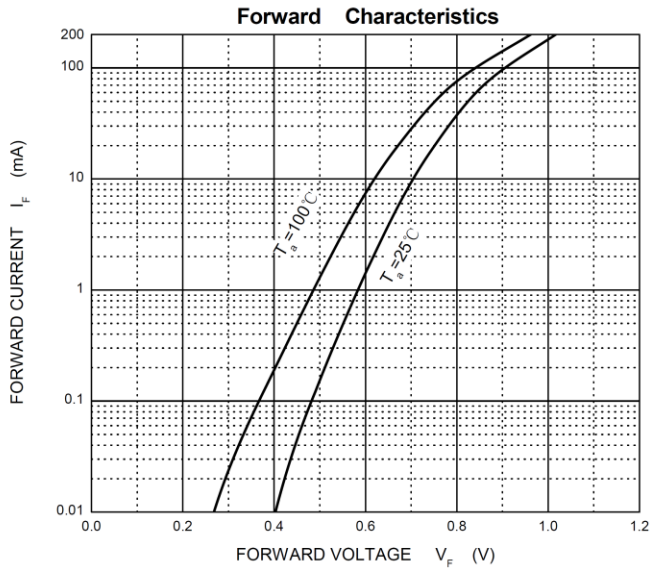
MARKING:

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

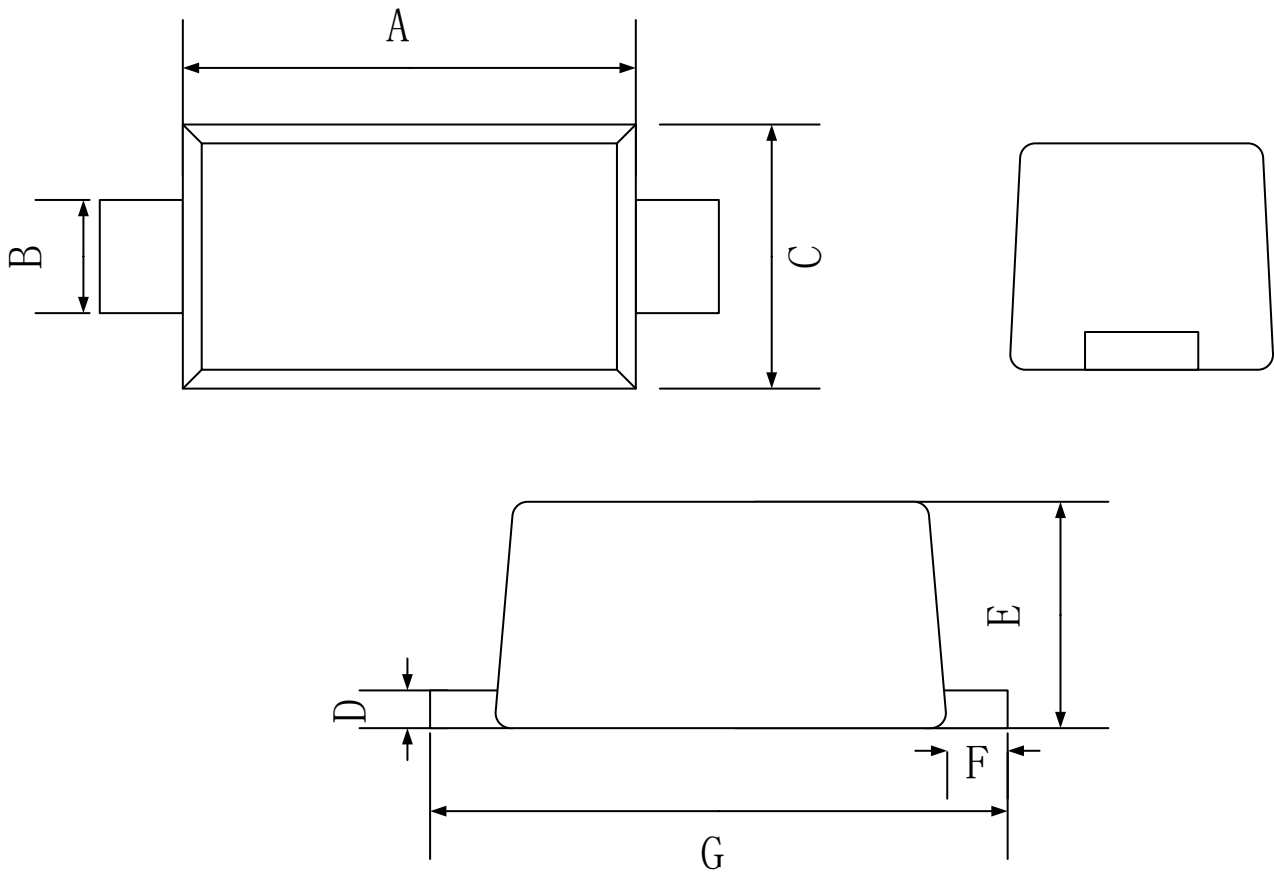
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RSM}	100	V
Repetitive Peak Reverse Voltage	V_{RRM}	85	V
Average rectified output current	I_o	0.10	A
Forward continuous current	I_{FM}	0.30	A
Non-repetitive Peak Forward Surge Current @ $t=8.3$ ms	I_{FSM}	2	A
Power Dissipation	P_D	0.15	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Max	Unit
Breakdown Voltage	V_R	$I_R=100\mu\text{A}$	100		V
Forward voltage	V_F	$I_F=10\text{mA}$		1.0	V
		$I_F=100\text{mA}$		1.2	V
Reverse current	I_R	$V_R=20\text{V}$		25	nA
		$V_R=80\text{V}$		100	nA
Diode capacitance	C_D	$V_R=0\text{V}, f=1\text{MHz}$		3	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}, I_{rr}=0.1 \cdot I_R, R_L=100\Omega, V_R=6\text{V}$		4	ns

Typical Electrical and Thermal Characteristics



SOD-923 Package Outline Dimensions


Symbol	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	0.70	0.80	0.90
B	0.15	0.22	0.30
C	0.55	0.60	0.65
D	0.05	0.10	0.20
E	0.39	0.42	0.45
F	0.10 REF		
G	0.90	1.00	1.10