

FEATURES AND BENEFITS

Product Summary		
I_O	100mA	@25 °C
V_F	1.0V	@10mA
V_{RRM}	100V	@25 °C

- For General Purpose Switching Applications
- High Conductance
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Moisture Sensitivity: Level 1 per J-STD-020

SOD-923

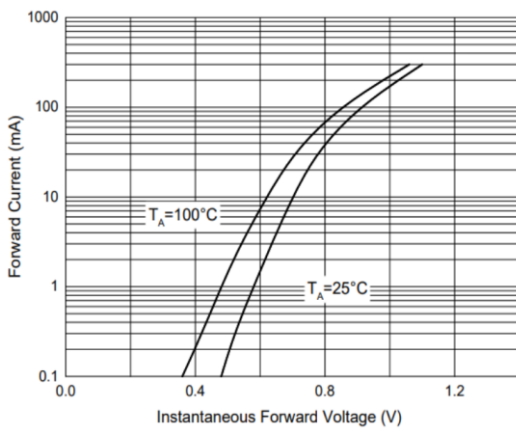


Cathode  Anode

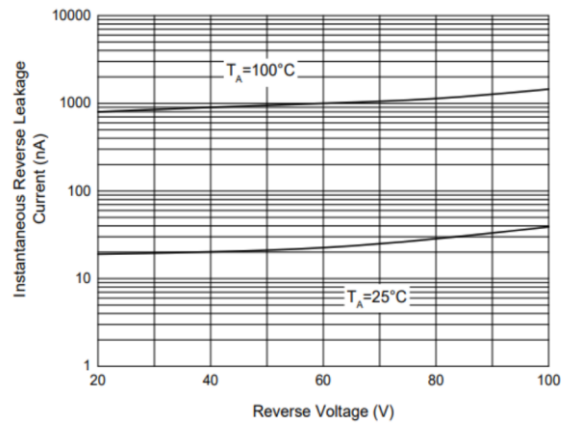
Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Working Reverse Voltage	V_{RWM}	85	V
Repetitive Peak Forward Current	I_{FRM}	300	mA
Continuous Forward Current	I_O	100	mA
Non-Repetitive Peak Forward Surge Current (@t=1us)	I_{FSM}	2	A
Power Dissipation	P_D	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Breakdown Voltage	V_{BR}	$I_R = 100\mu A$	100		V
Forward Voltage	V_F	$I_F = 10mA$		1.0	V
		$I_F = 100mA$		1.2	
Reverse Current	I_R	$V_R = 20V$		25	nA
		$V_R = 75V$		5	uA
Capacitance	C_T	$V_R = 0V, f = 1MHz$		4	pF
Reverse Recovery Time	T_{RR}	$I_F = 10mA, V_R = 6V, I_{RR} = 1mA, R_L = 100\Omega$		4	ns

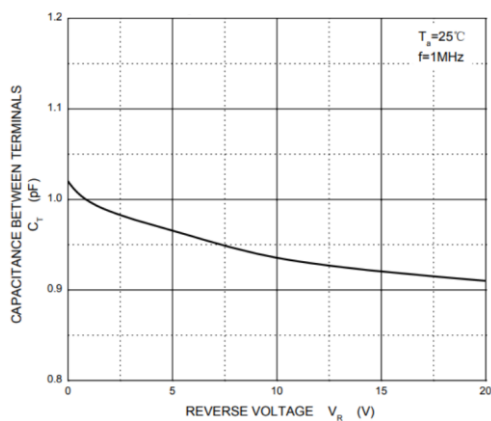
RATING AND CHARACTERISTICS CURVES



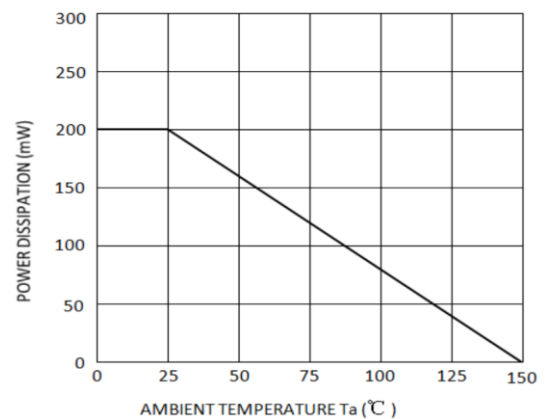
Forward current (I_F) vs Forward voltage (V_F)



Reverse current (I_R) vs Reverse voltage (V_R)



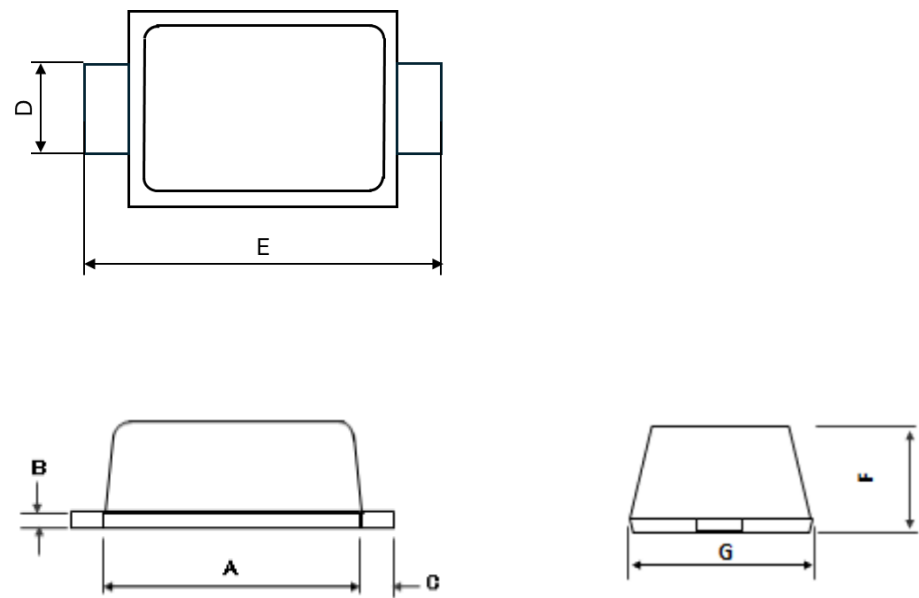
Capacitance Characteristics



Power Derating Curve

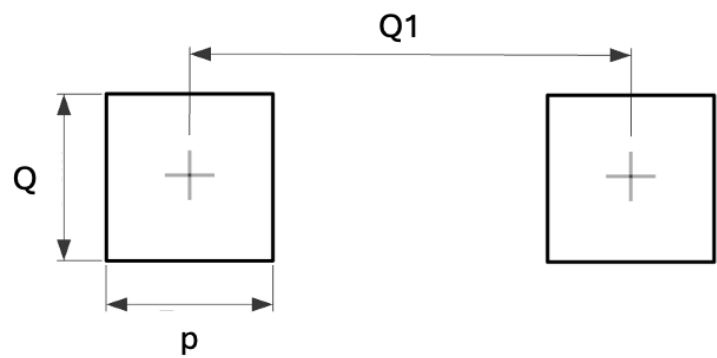
PACKAGE OUTLINE DIMENSIONS

SOD-923



Symbol	MIN	MAX
A	0.70	0.90
B	0.05	0.20
C	0.05	0.15
D	0.15	0.30
E	0.90	1.10
F	0.39	0.45
G	0.55	0.65
Unit: mm		

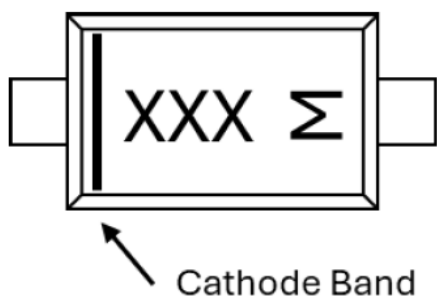
SUGGESTED PAD LAYOUT



Symbol	Typ
Q1	1.40
Q	0.45
p	0.45
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
1N4148M9	S1	8000/7"Reel	Tape & Reel



XXX: Product Marking Code

Σ : Date Code (Rotate 90° counterclockwise)

Odd Year	Even Year
1	E
2	F
3	H
4	J
5	K
6	L
7	N
8	P
9	U
T	X
V	Y
C	Z

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