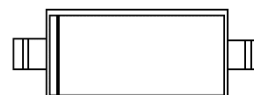


FEATURES AND BENEFITS

Product Summary		
I_O	150 mA	@25 °C
V_F	1.0V	@10mA
V_{RRM}	100V	@25 °C

SOD-323



Cathode  Anode

- 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
- Weight: 0.006 grams (Approximate)

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}	100	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Non-Repetitive Peak Forward Surge Current (@t=1.0us)	I_{FSM}	2.0	A
Power Dissipation	P_{TM}	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

Thermal Characteristics (TA = 25 °C unless otherwise noted)

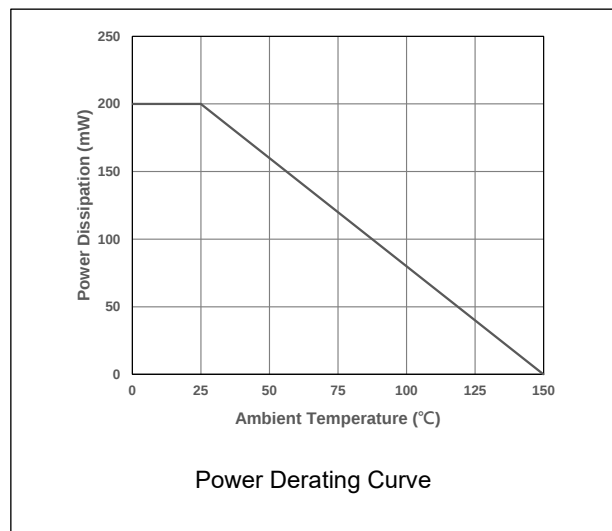
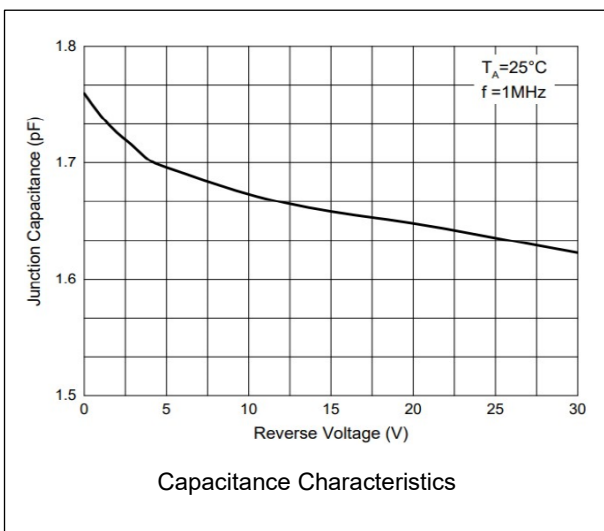
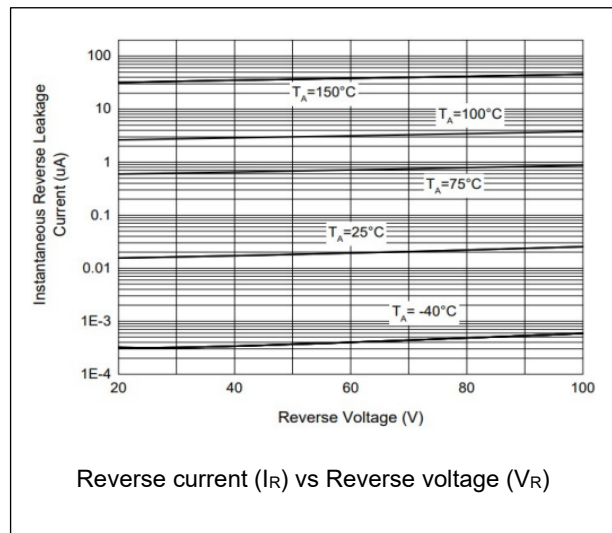
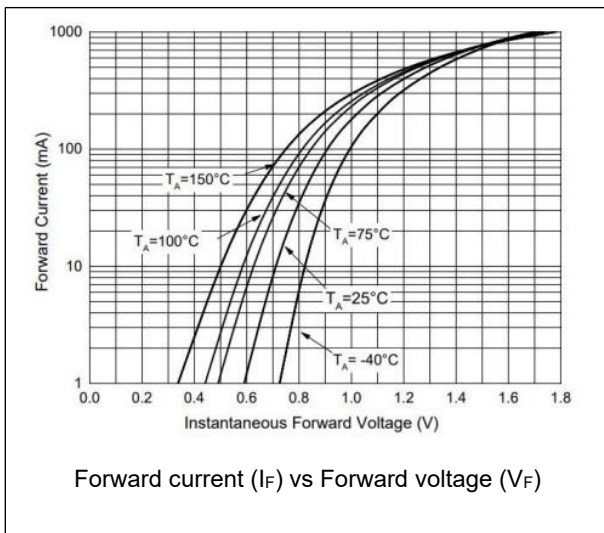
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	625	°C/W
Thermal Resistance from Junction to Case	$R_{\theta JC}$	550	°C/W

* Device mounted on 1"x1" FR4 PCB

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

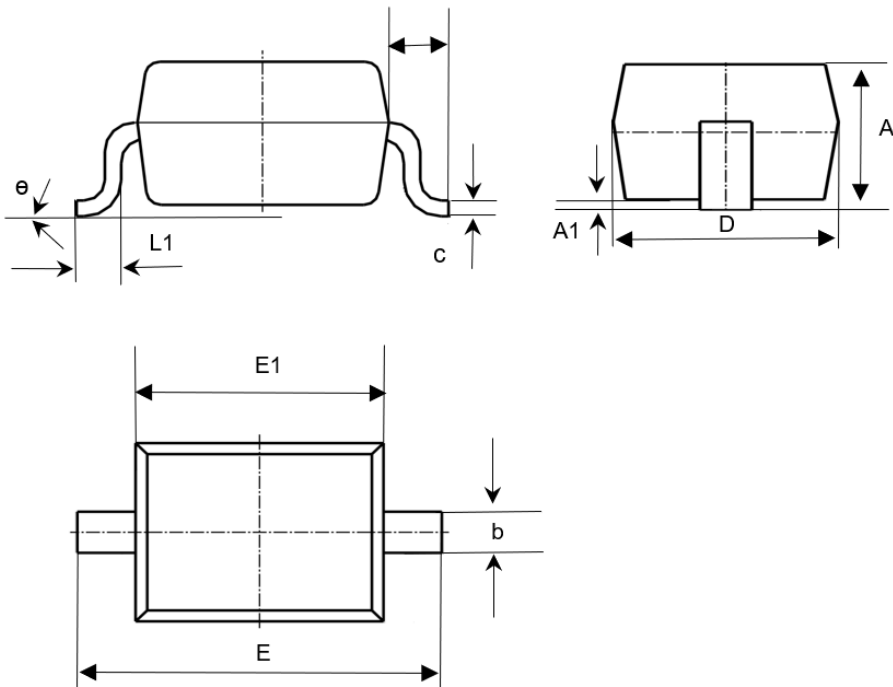
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F = 10\text{mA}$		1.0	V
Reverse Current	I_R	$V_R = 75\text{V}$		5.0	μA
		$V_R = 20\text{V}$		25	nA
Capacitance	C_T	$V_R = 0\text{V}, f = 1\text{MHz}$		4.0	pF
Reverse Recovery Time	t_{rr}	$I_F = 10\text{mA}, V_R = 6\text{V}, I_{rr} = 1\text{mA}, R_L = 100\Omega$		4.0	ns

RATING AND CHARACTERISTICS CURVES



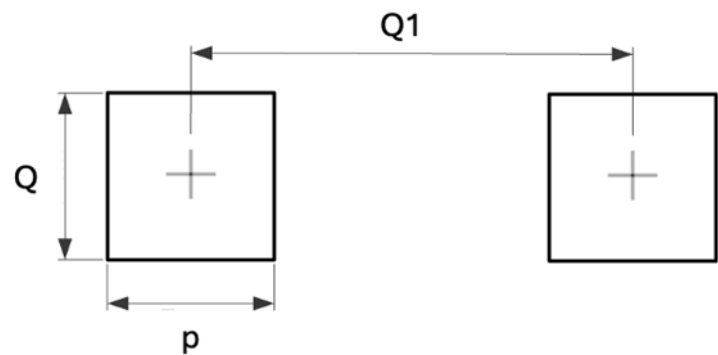
PACKAGE OUTLINE DIMENSIONS

SOD-323



Symbol	MIN	MAX
A	0.00	1.00
A1	0.00	0.10
b	0.25	0.35
c	0.08	0.15
D	1.20	1.40
E	2.50	2.70
E1	1.60	1.80
L	0.475 REF	
L1	0.25	0.4
θ	0°	8°
Unit: mm		

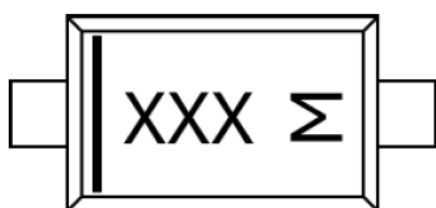
SUGGESTED PAD LAYOUT



Symbol	Type
Q1	2.15
Q	0.7
p	0.7
Unit: mm	

DEVICE MARKING AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
1N4148WS	T4	3000/Reel	Tape & Reel



Cathode Band

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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