

FEATURES AND BENEFITS

Product Summary		
I_O	150 mA	@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
- Weight: 0.006 grams (Approximate)

SOD-323



Cathode  Anode

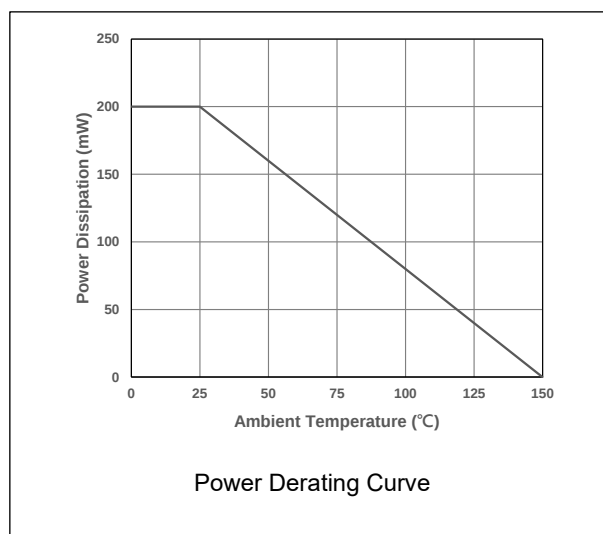
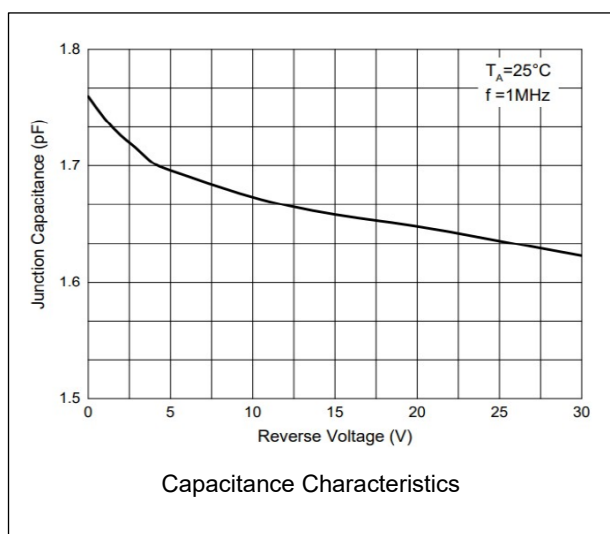
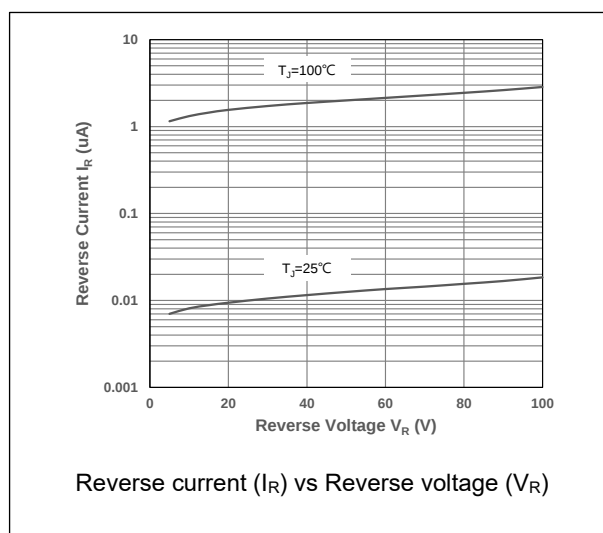
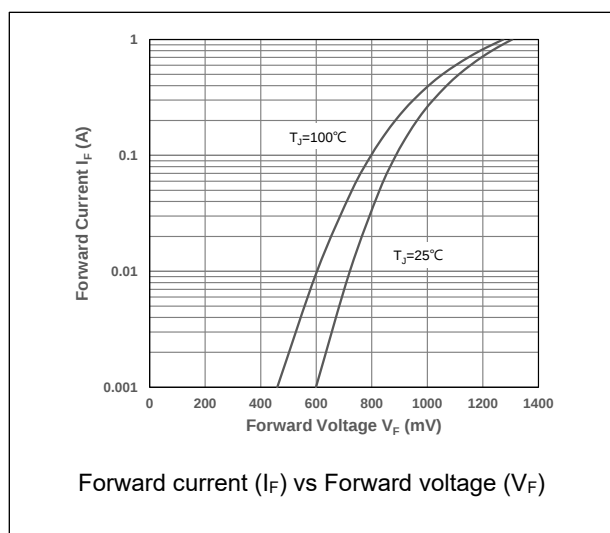
Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Working Reverse Voltage	V_{RWM}	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	75	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Non-Repetitive 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

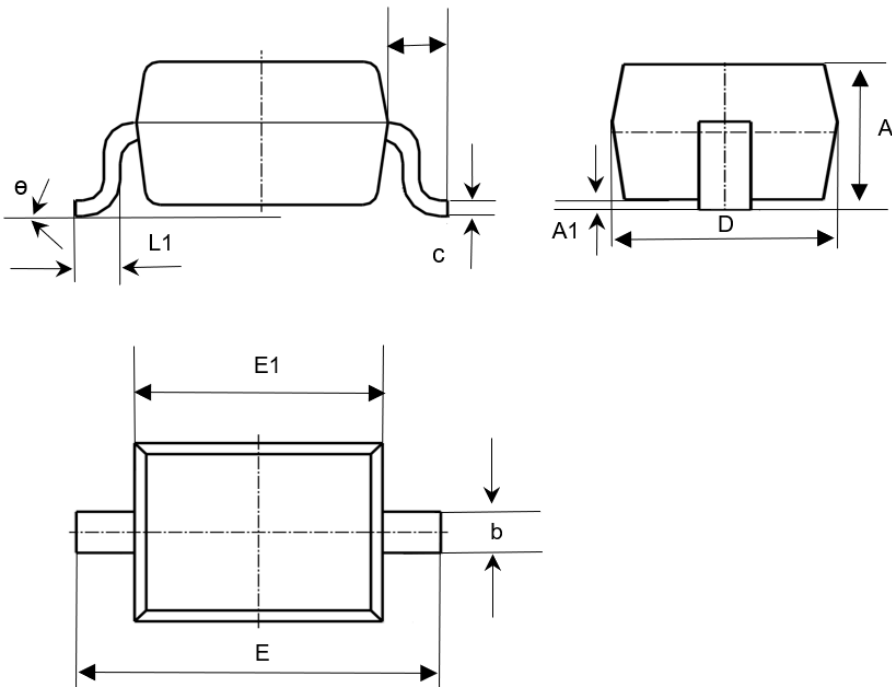
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V _F	I _F = 5mA		0.72	V
		I _F = 10mA		1.0	
		I _F = 100mA		1.0	
Reverse Current	I _R	V _R = 75V		5.0	μA
		V _R = 20V		25	nA
Capacitance	C _T	V _R = 0V, f = 1MHz		4.0	pF
Reverse Recovery Time	t _{rr}	I _F = 10mA, V _R = 6V, I _{rr} = 1mA, R _L =100ohm		4.0	ns

RATING AND CHARACTERISTICS CURVES



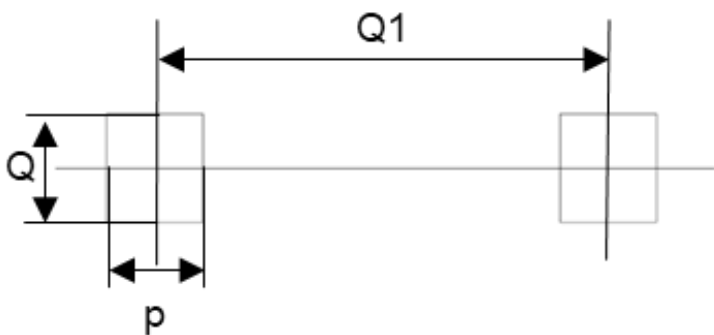
PACKAGE OUTLINE DIMENSIONS

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

NOTICE:

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