

FEATURES AND BENEFITS

Product Summary		
I_O	500 mA	@25 °C
V_F	0.51V	@500mA
V_{RRM}	40V	@25 °C

- Low Forward Voltage Schottky Rectifier
- 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: 0.004 grams (Approximate)

SOD-323

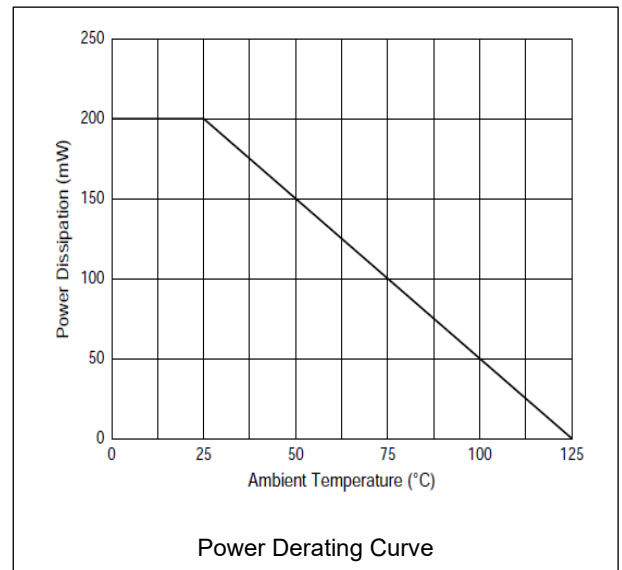
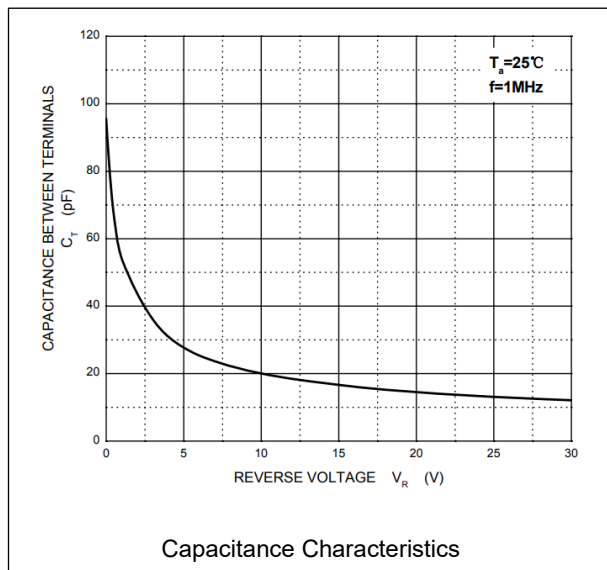
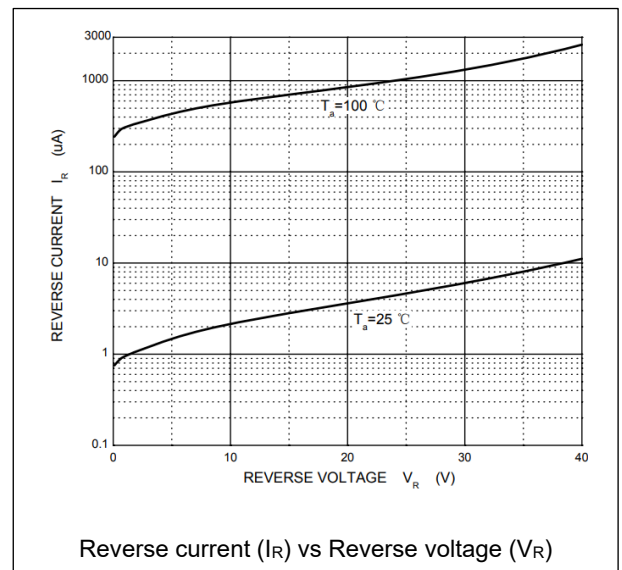
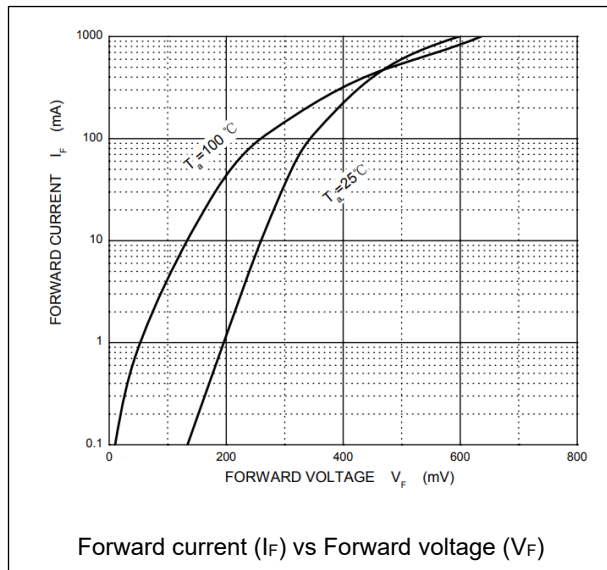


Cathode  Anode

Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Working Reverse Voltage	V_{RWM}	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Rectified Output Current	I_O	500	mA
Non-Repetitive Peak Forward Surge Current (@t=8.3ms)	I_{FSM}	5	A
Power Dissipation	P_{TM}	200	mW
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-40 to +125	°C

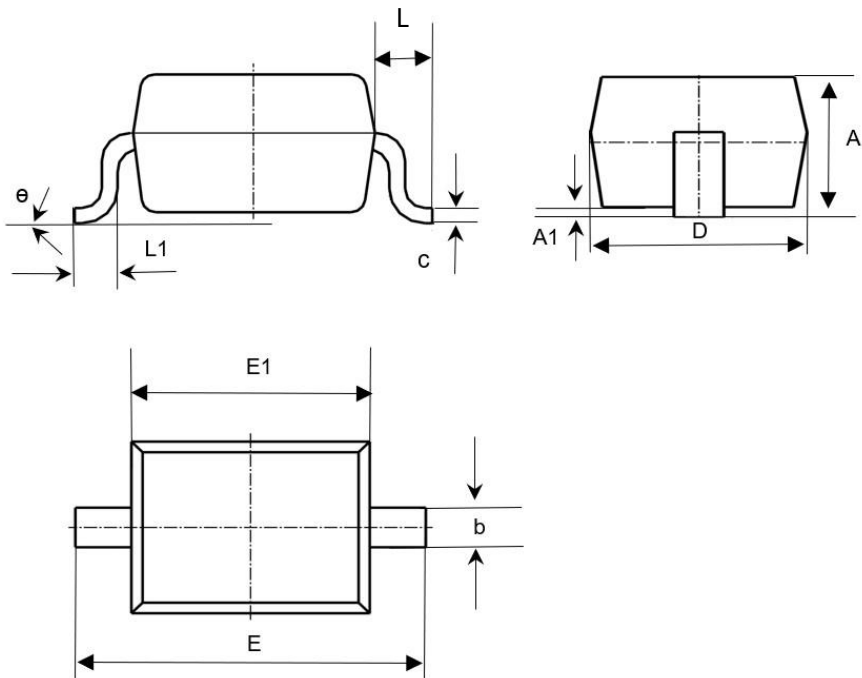
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F = 500mA$		0.51	V
		$I_F = 1A$		0.62	
Reverse Current	I_R	$V_R = 20V$		10	μA
		$V_R = 40V$		20	
Capacitance	C_T	$V_R = 0V, f = 1MHz$		170	pF

RATING AND CHARACTERISTICS CURVES



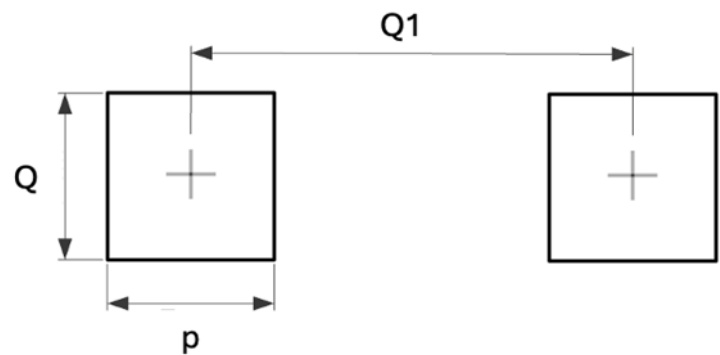
PACKAGE OUTLINE DIMENSIONS

SOD-323



Symbol	MIN	MAX
A	-	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	0.475REF	
L1	0.25	0.40
θ	0°	8°
Unit: mm		

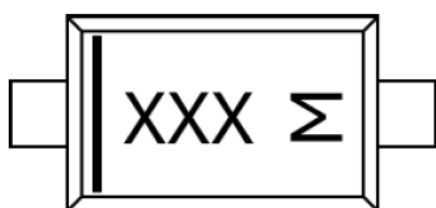
SUGGESTED PAD LAYOUT



Symbol	Typ
Q1	2.15
Q	0.7
p	0.7
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
B0540WS	SF	3000/7"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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