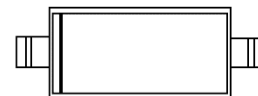


FEATURES AND BENEFITS

Product Summary		
I_F	250mA	@25 °C
V_F	0.715V	@1mA
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: 0.004 grams (Approximate)

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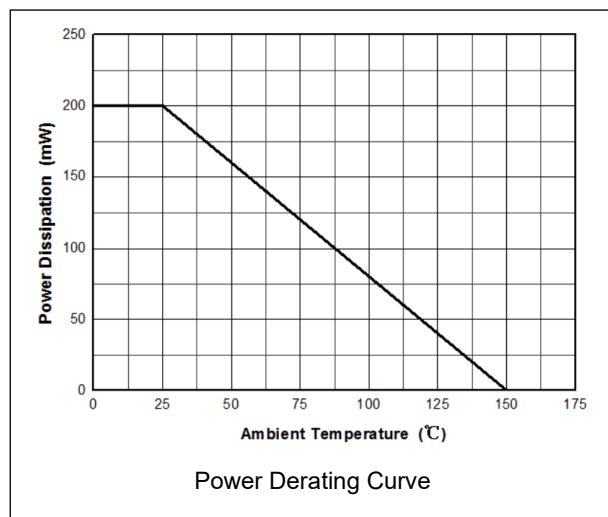
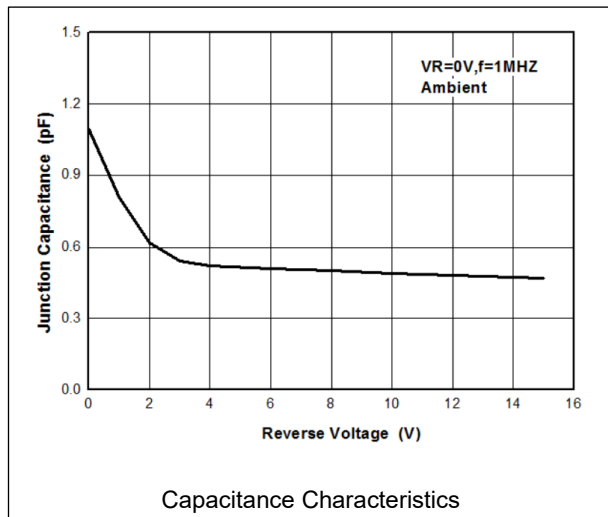
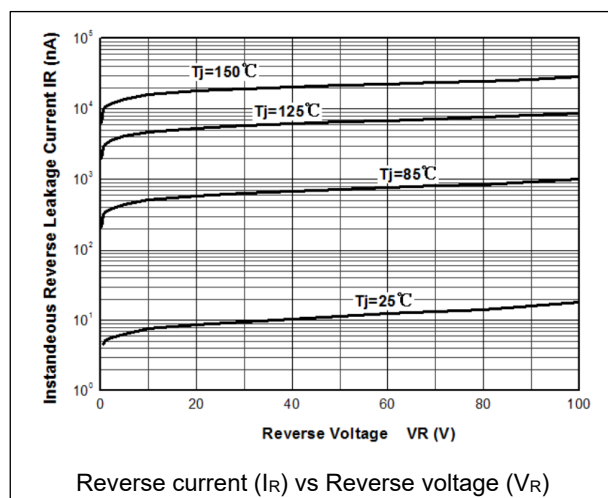
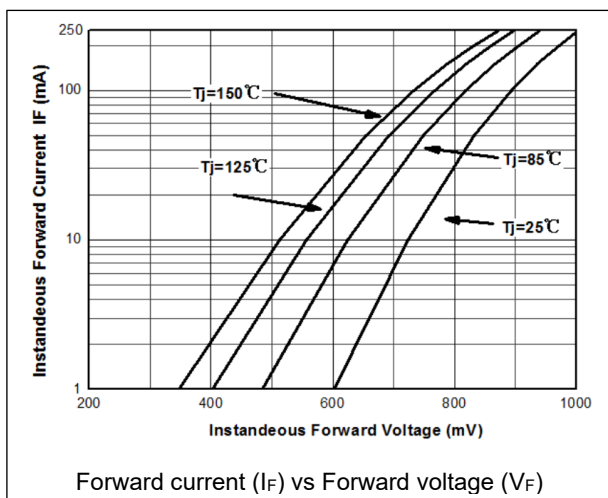


Cathode  Anode

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
Repetitive Peak Forward Current		I_{FRM}	300	mA
Non-Repetitive Peak Forward Surge Current	@t=1.0us	I_{FSM}	4.0	A
	@t=1ms		1.0	
	@t=1s		0.5	
Continuous Forward Current		I_F	250	mA
Power Dissipation		P_{TM}	200	mW
Junction Temperature		T_J	150	°C
Storage Temperature		T_{STG}	-55 to +150	°C

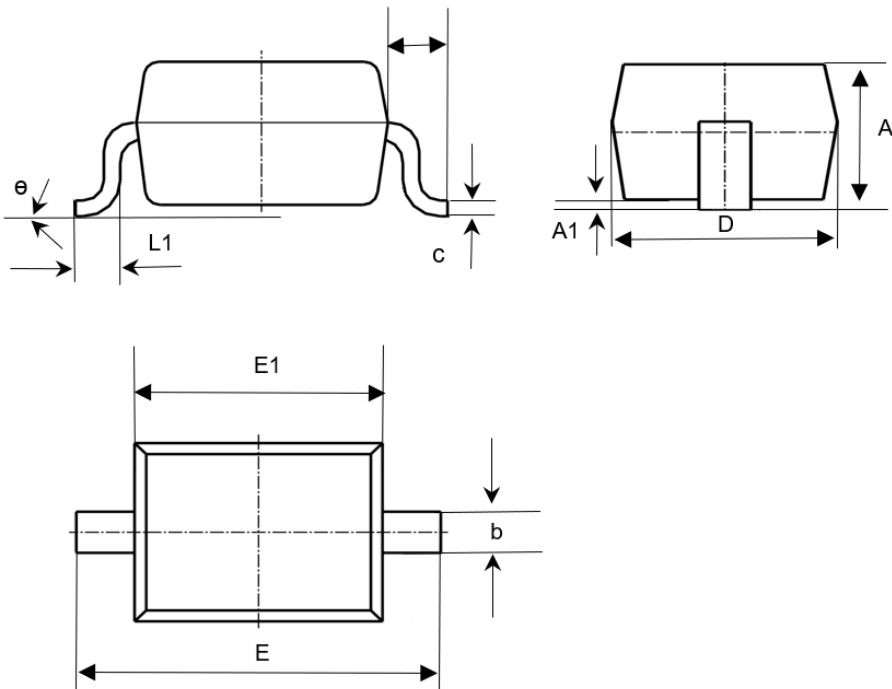
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Breakdown Voltage	V _{BR}	I _R = 100μA	100		V
		I _R = 5μA	75		V
Forward Voltage	V _F	I _F = 1mA		0.715	V
		I _F = 10mA		0.855	
		I _F = 50mA		1.0	
		I _F = 150mA		1.25	
Reverse Current	I _R	V _R = 20V		30	nA
		V _R = 75V		1	μA
		V _R = 100V		5	μA
Capacitance	C _T	V _R = 0V, f = 1MHz		2.0	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 10mA, I _{rr} = 0.1 × I _R		4	ns

RATING AND CHARACTERISTICS CURVES



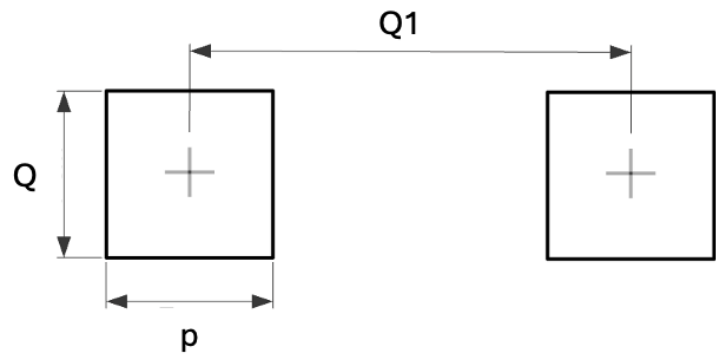
PACKAGE OUTLINE DIMENSIONS

SOD-323



Symbol	MIN	MAX
A	-	1.00
A1	0.00	0.10
A2	0.80	0.90
b	0.25	0.35
c	0.08	0.15
D	1.20	1.40
E	1.60	1.80
E1	2.50	2.70
L	0.475REF	
L1	0.25	0.4
θ	0°	8°
Unit: mm		

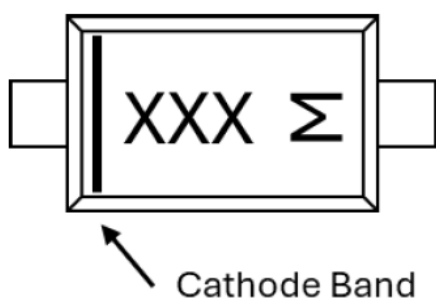
SUGGESTED PAD LAYOUT



Symbol	Typ
Q1	2.15
Q	0.7
p	0.7
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BAS316WS	A6	3000/7"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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