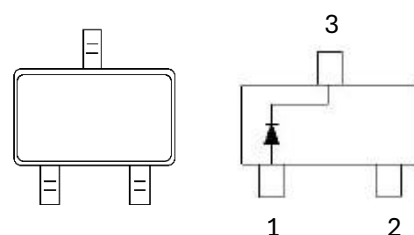


FEATURES AND BENEFITS

Product Summary		
I_O	200mA	@25 °C
V_F	1.0V	@100mA
V_{RRM}	120V	@25 °C

- For High-Speed Switching Applications
- Low Current Leakage
- 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)

SOT-323



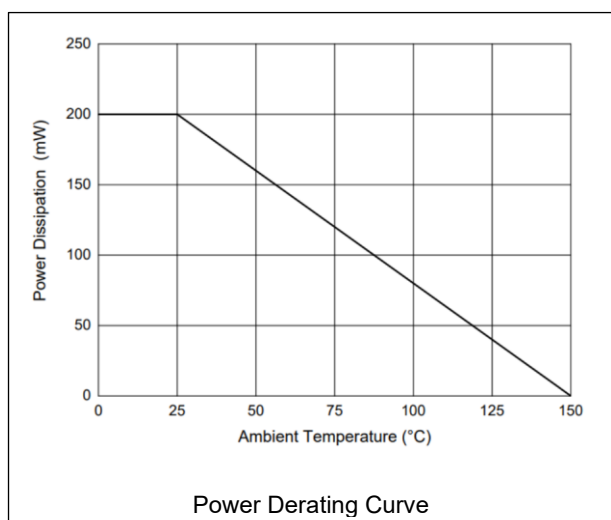
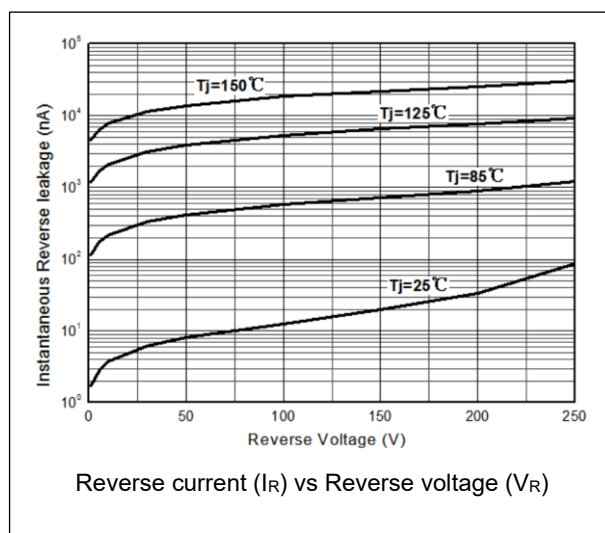
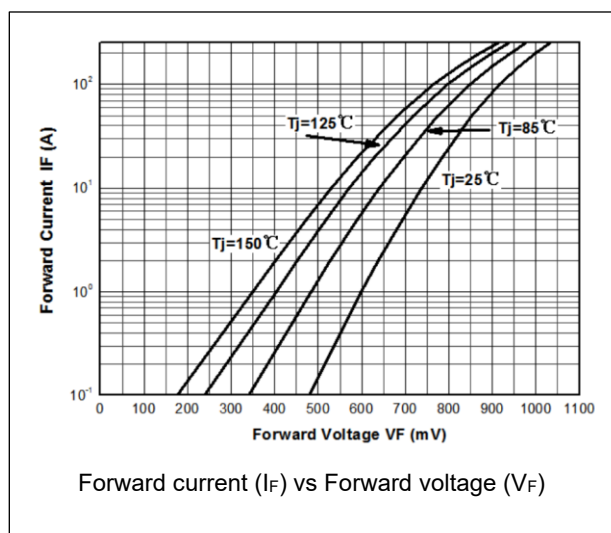
Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	120	V
Working Peak Reverse Voltage	V_{RWM}	100	V
Average Rectified Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current (@t=8.3ms)	I_{FSM}	2.5	A
Power Dissipation	P_{TM}	200	mW
Junction Temperature	T_J	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

* Device mounted on 1"x1" FR4 PCB

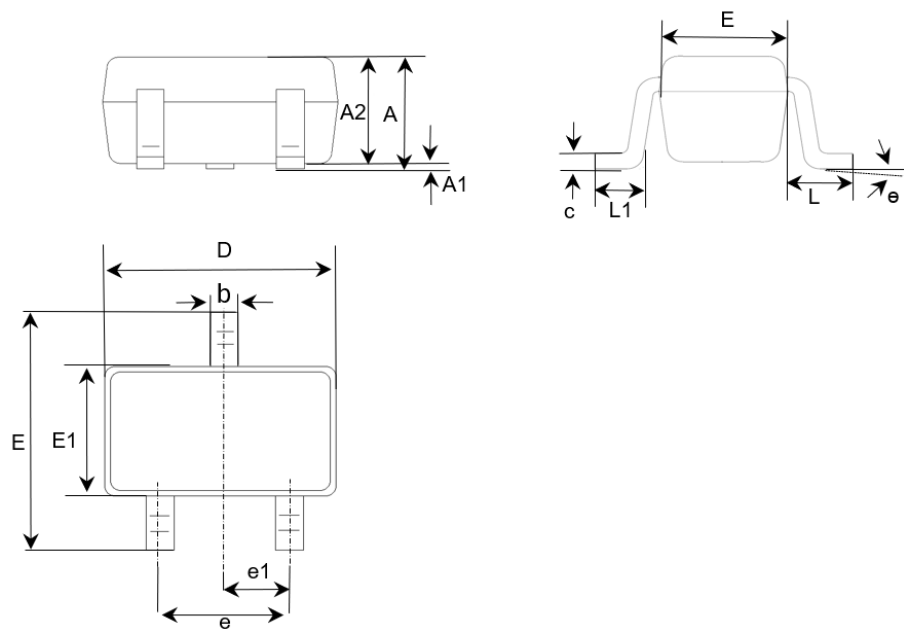
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V _F	I _F = 100mA		1.00	V
		I _F = 200mA		1.25	
Reverse breakdown voltage	V _R	I _R =100uA	100		V
Reverse Current	I _R	V _R = 100V		100	nA
Capacitance	C _T	V _R = 0V, f = 1MHz		5.0	pF
Reverse Recovery Time	t _{rr}	I _F =30mA, I _R =30mA, I _{rr} =0.1*I _R		50	ns

RATING AND CHARACTERISTICS CURVES



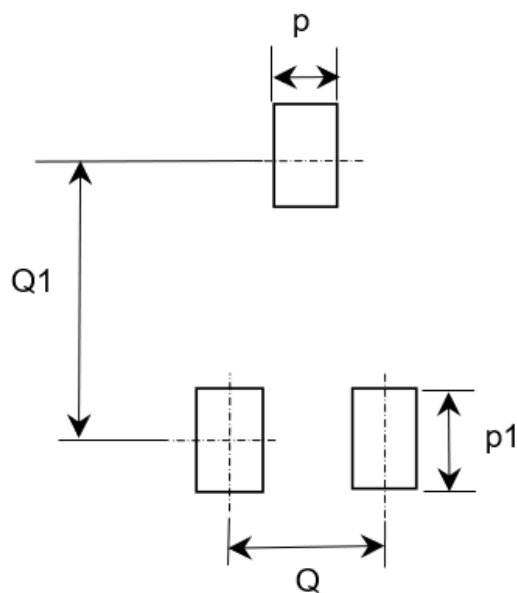
PACKAGE OUTLINE DIMENSIONS

SOT-323



Symbol	MIN	MAX
A	0.90	1.00
A1	0.00	0.10
A2	0.90	1.00
b	0.20	0.40
c	0.08	0.15
D	2.00	2.20
E	1.15	1.35
E1	2.15	2.45
e	0.650TYP	
e1	1.20	1.40
L	0.525REF	
L1	0.26	0.46
e	0°	8°
Unit: mm		

SUGGESTED PAD LAYOUT

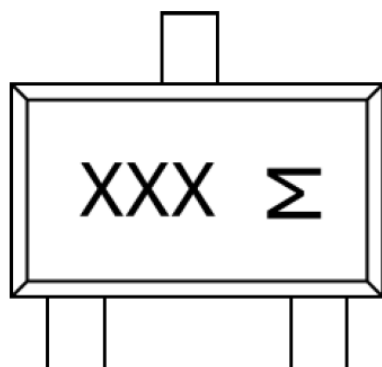


Land Pattern Recommendation

Symbol	Type
Q1	2.2
Q	1.3
p	0.5
p1	0.8
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BAS19W	KA8	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

NOTICE:

AZUREMOTO'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS COMPONENTS IN ANY LIFE SUPPORT DEVICES OR SYSTEMS.

AZUREMOTO RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY OR RUGGEDNESS.