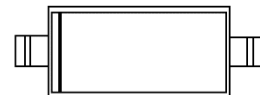


FEATURES AND BENEFITS

Product Summary		
I_O	200mA	@25 °C
V_F	1.0V	@100mA
V_{RRM}	150V	@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: 0.01 grams (Approximate)

SOD-123



Cathode  Anode

Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Working Reverse Voltage	V_{RWM}	150	V
RMS Reverse Voltage	$V_{R(RMS)}$	106	V
Average Rectified Output Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current (@t=1.0us)	I_{FSM}	4.0	A
Power Dissipation	P_{TM}	410	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-65 to +150	°C

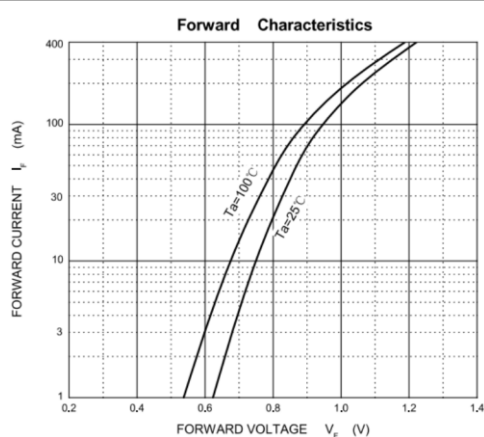
THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	305	°C/W

* Device mounted on 1"x1" FR4 PCB

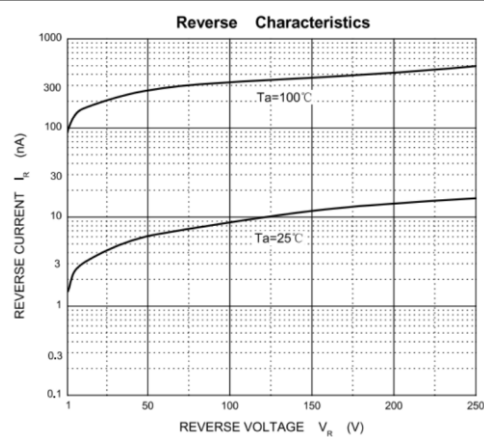
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F = 100\text{mA}$		1.0	V
		$I_F = 200\text{mA}$		1.25	
Reverse Current	I_R	$V_R = 150\text{V}$		0.1	μA
Capacitance	C_T	$V_R = 0\text{V}, f = 1\text{MHz}$		5.0	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 30\text{mA}, I_{rr} = 0.1 \cdot I_R,$ $R_L = 100\Omega$		50	ns

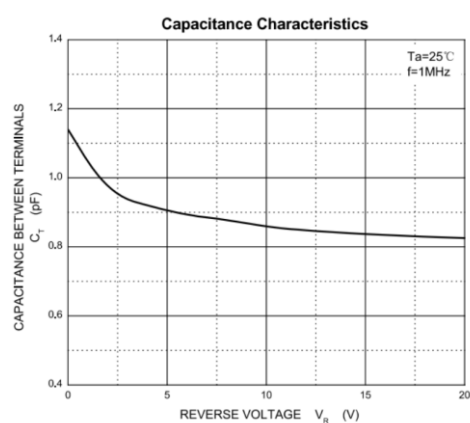
RATING AND CHARACTERISTICS CURVES



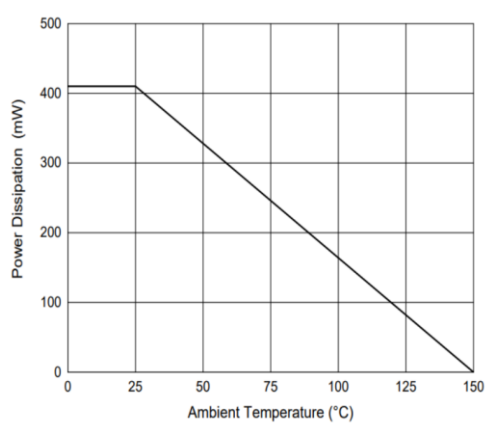
Forward current (I_F) vs Forward voltage (V_F)



Reverse current (I_R) vs Reverse voltage (V_R)



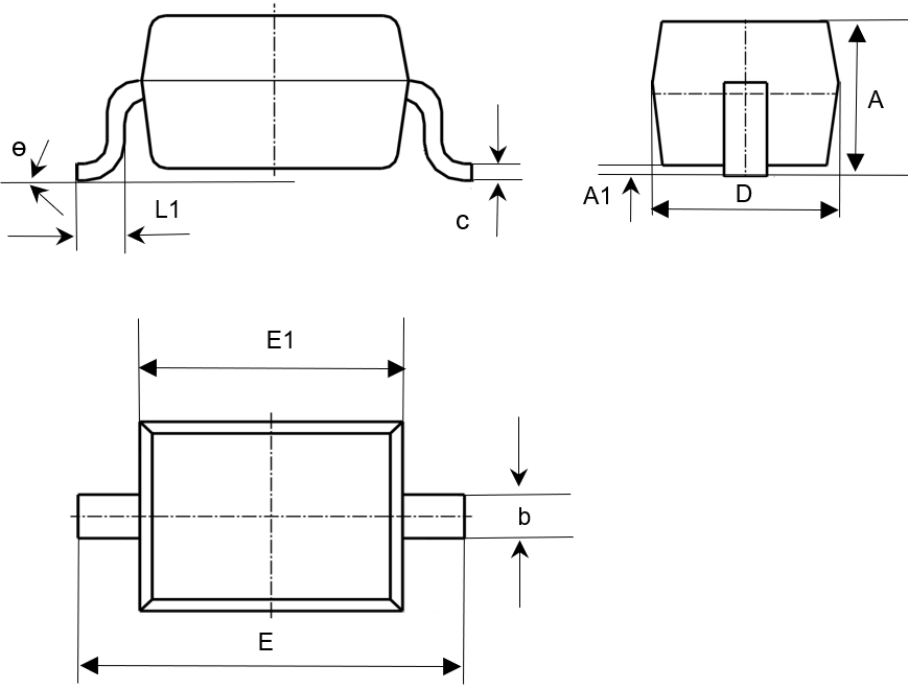
Capacitance Characteristics



Power Derating Curve

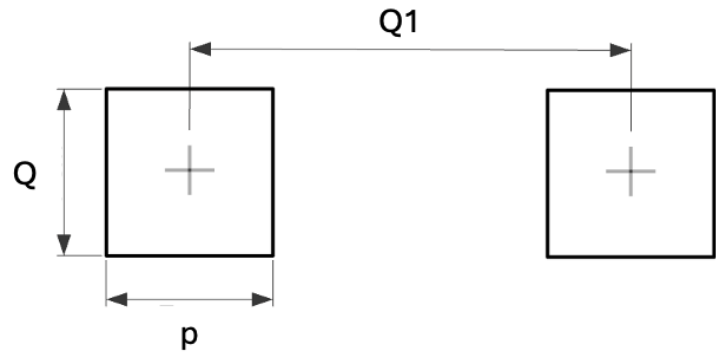
PACKAGE OUTLINE DIMENSIONS

SOD-123



Symbol	MIN	MAX
A	1.05	1.25
A1	0.00	0.10
A2	1.05	1.15
b	0.45	0.65
c	0.08	0.15
D	1.50	1.70
E	2.60	2.80
E1	3.55	3.85
L	0.500REF	
L1	0.25	0.45
θ	0°	8°
Unit: mm		

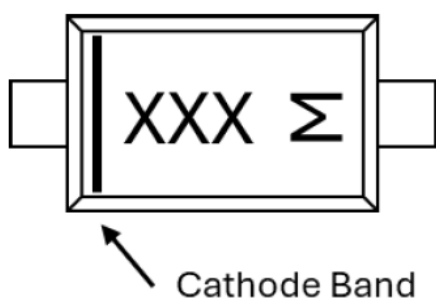
SUGGESTED PAD LAYOUT



Symbol	Typ
Q1	3.24
Q	1.0
p	0.8
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BAV20W	T2	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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