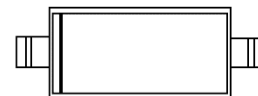


FEATURES AND BENEFITS

Product Summary		
I_{FM}	225mA	@25 °C
V_F	0.87V	@20mA
V_{RRM}	350V	@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

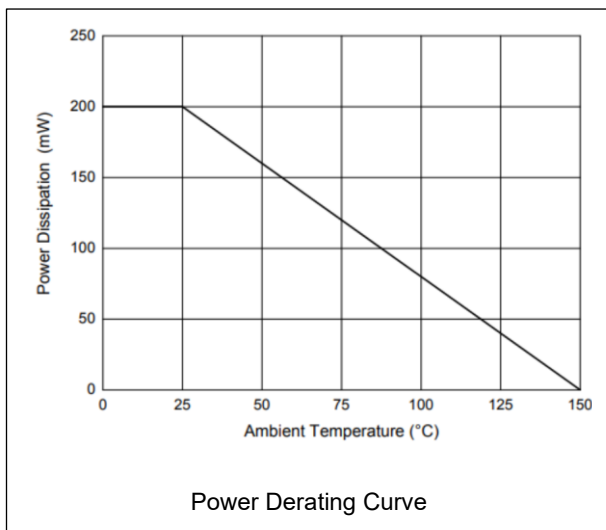
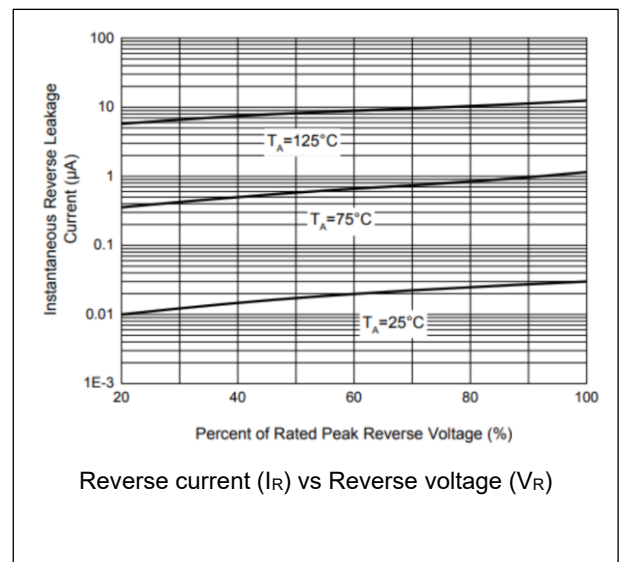
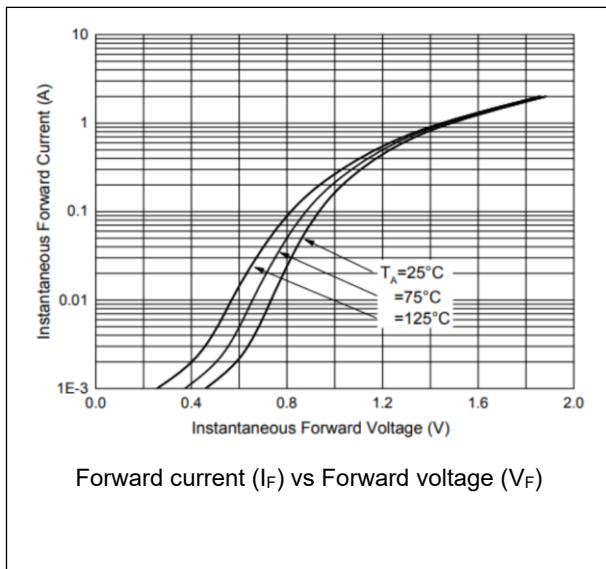
Maximum Ratings (TA = 25 °C unless otherwise noted)				
PARAMETER		SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage		V_{RRM}	350	V
Working Reverse Voltage		V_{RWM}	350	V
RMS Reverse Voltage		$V_{R(RMS)}$	300	V
Forward Continuous Current		I_{FM}	225	mA
Repetitive Peak Forward Current		I_{FSM}	625	mA
Non-Repetitive Peak Forward Surge Current	(@t=1.0us)	I_{FSM}	4.0	A
	(@t=1.0s)		1.0	A
Power Dissipation		P_{TM}	400	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	$R_{\theta JA}$	305	°C/W

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

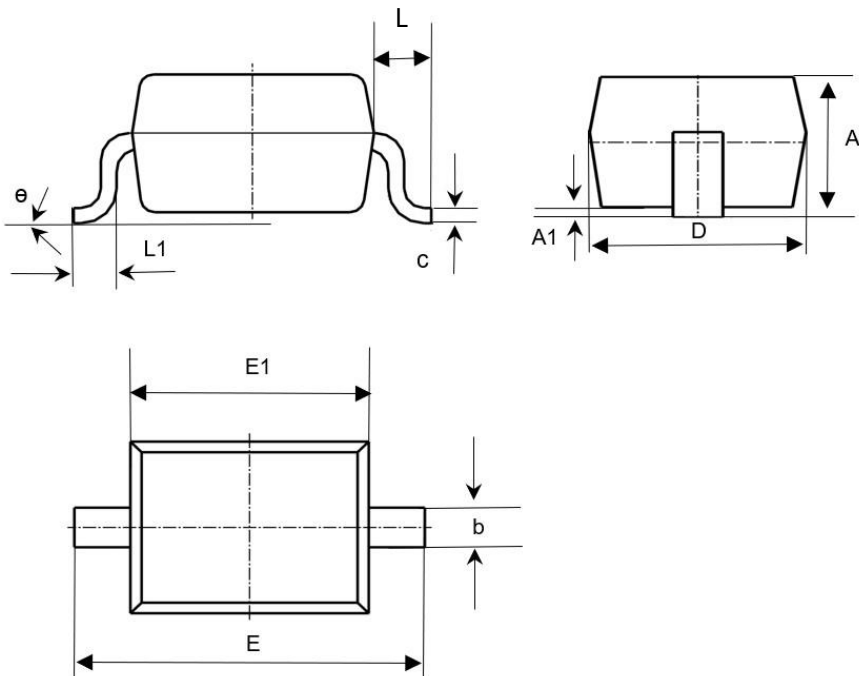
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Reverse Breakdown Voltage	V_{BR}	$I_R = 150\mu A$	350		V
Forward Voltage	V_F	$I_F = 20mA$		0.87	V
		$I_F = 100mA$		1.00	
		$I_F = 200mA$		1.25	
Reverse Current	I_R	$V_R = 240V (25^\circ C)$		100	nA
		$V_R = 240V (150^\circ C)$		100	μA
Capacitance	C_T	$V_R = 0V, f = 1MHz$		5.0	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 30mA, I_{rr} = 0.1 \cdot I_R, R_L = 100\Omega$		50	ns

RATING AND CHARACTERISTICS CURVES



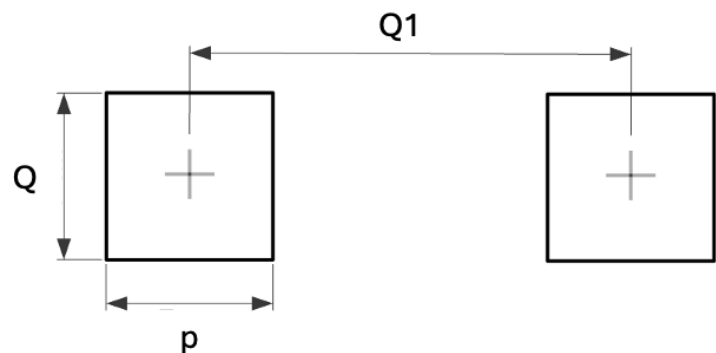
PACKAGE OUTLINE DIMENSIONS

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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	2.50	2.70
E1	1.60	1.80
L	0.475REF	
L1	0.25	0.40
θ	0°	8°
Unit: mm		

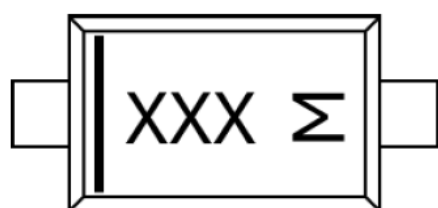
SUGGESTED PAD LAYOUT



Symbol	Typ
Q1	2.15
Q	0.7
p	0.7
Unit: mm	

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BAV3004WS	4P	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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