

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

SOD-523



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_{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current (@t=1.0us)	I_{FSM}	4.0	A
Power Dissipation	P_{TM}	150	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

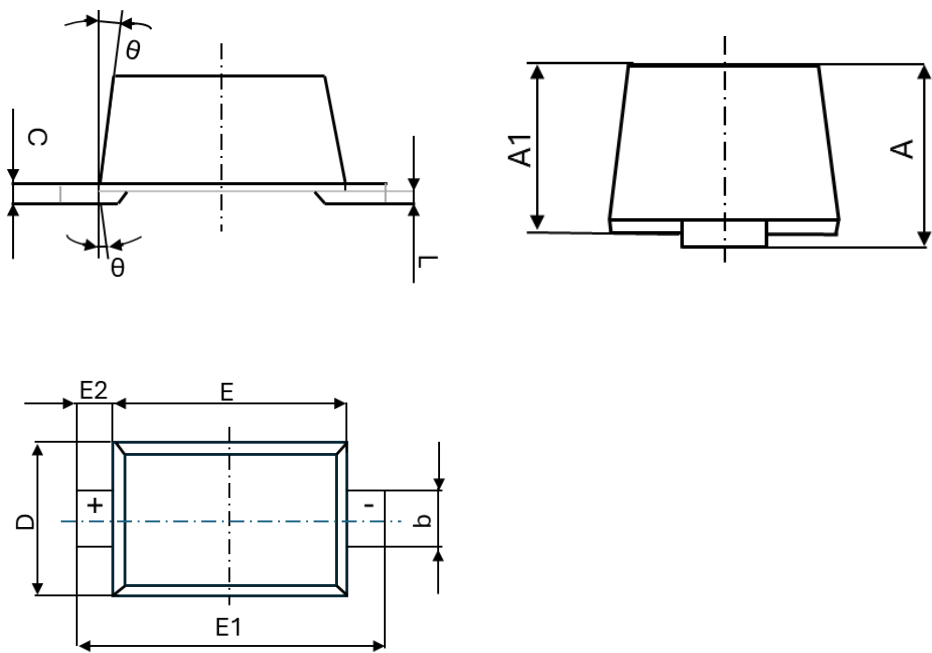
THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	233	°C/W

* 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 = 20mA		0.87	V
		I _F = 100mA		1.00	
		I _F = 200mA		1.25	
Reverse Current	I _R	V _R = 240V		100	nA
		V _R = 240V (150 °C)		100	μA
Capacitance	C _T	V _R = 0V, f = 1MHz		2.0	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 30mA, I _{rr} = 0.1xI _R , R _L =100ohm		50	ns

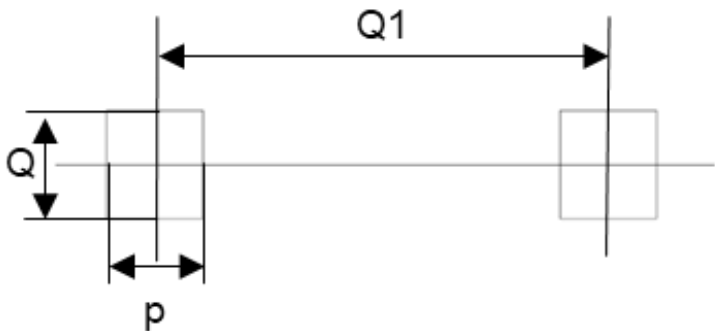
PACKAGE OUTLINE DIMENSIONS

SOD-523



Symbol	MIN	MAX
A	0.51	0.77
A1	0.50	0.70
b	0.25	0.35
c	0.08	0.15
D	0.75	0.85
E	1.10	1.30
E1	1.50	1.70
E2	0.20REF.	
L	0.01	0.07
θ	7°REF.	
Unit: mm		

SUGGESTED PAD LAYOUT



Symbol	Type
Q1	1.42
Q	0.7
p	0.6
Unit: mm	

DEVICE MARKING AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BAV3004X	4P	8000/Reel	Tape & Reel (7")

NOTICE:

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