

BAV316

SWITCHING DIODE

VOLTAGE	130 Volt	POWER	250 mW
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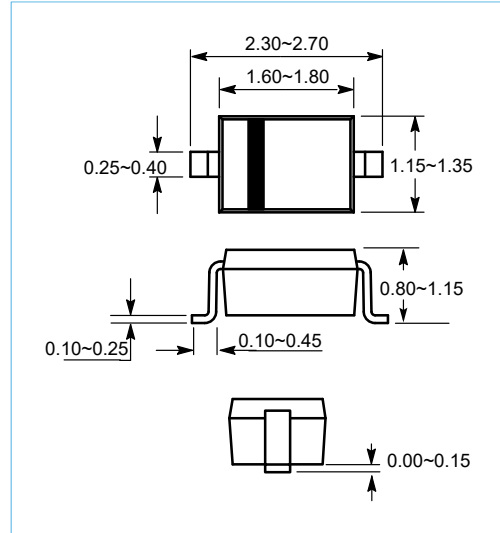
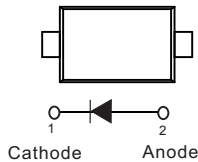
SOD-323 Unit:mm

FEATURES

- High Switching Speed
- Low Reverse Current
- Lead free in compliance with EU RoHS
- Marking code: XX

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

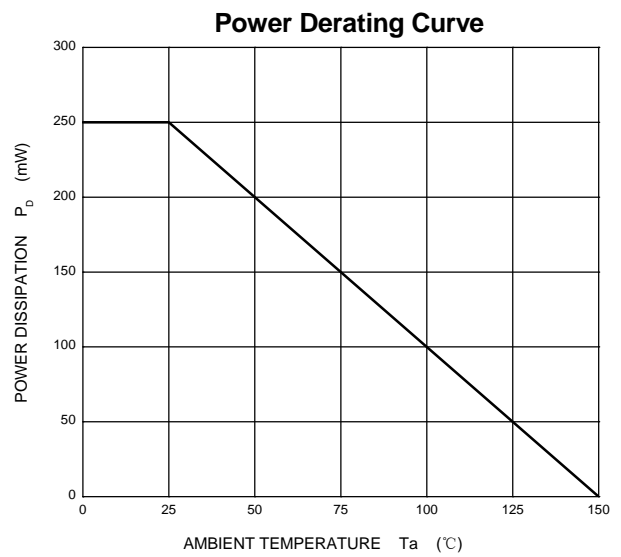
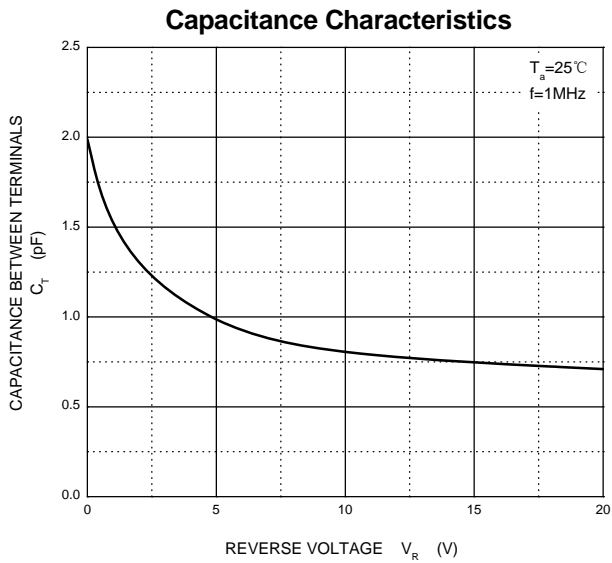
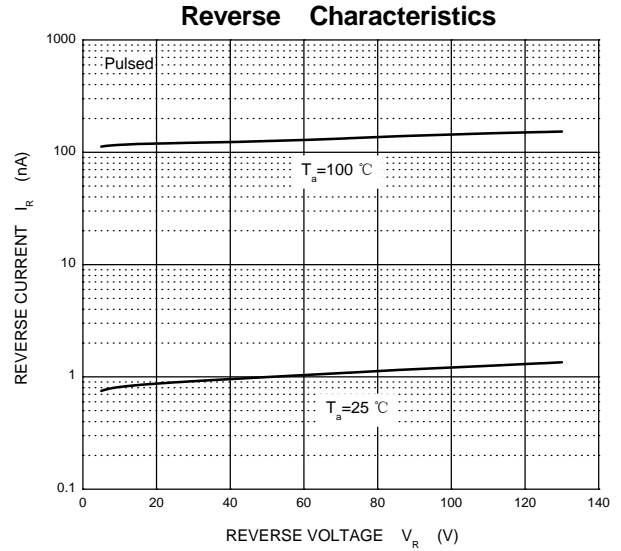
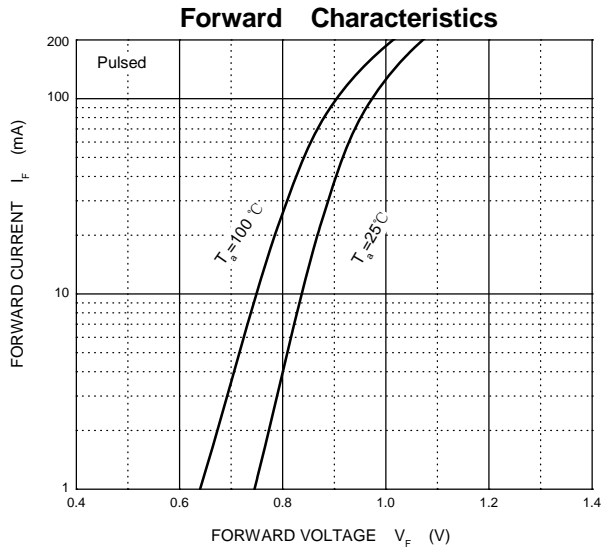
Parameter	Symbol	Value	Units
Peak reverse voltage	V_{RM}	130	V
Reverse voltage	V_R	130	V
Average Rectified Output Current	I_O	215	mA
Non-repetitive Peak Forward surge current @ $t=8.3\text{ms}$	I_{FSM}	2.0	A
Power dissipation	P_D	250	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$(I_R = 100 \mu\text{A})$	130			V
Reverse current	I_R	$(V_R = 75 \text{V})$			5	nA
Forward Voltage	V_F	$(I_F = 1.0 \text{mA})$ $(I_F = 10 \text{mA})$ $(I_F = 50 \text{mA})$ $(I_F = 150 \text{mA})$			0.85 0.95 1.00 1.10	V
Total Capacitance	C_T	$(V_R = 0 \text{V}, f = 1.0 \text{MHz})$		2.0		pF
Reverse Recovery Time	t_{rr}	$I_F=10\text{mA}, I_R=10\text{mA}, I_{rr}=0.1I_R, R_L=100 \Omega$			3.0	us

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Typical Characteristics

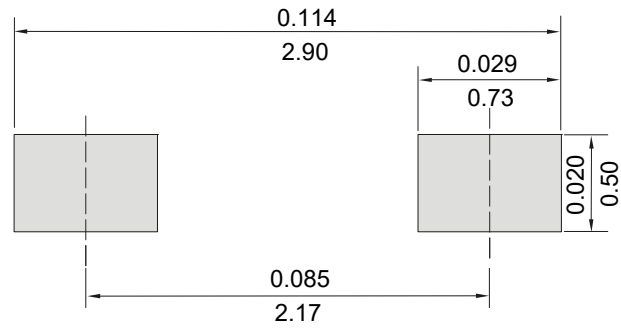


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MOUNTING PAD LAYOUT

SOD-323

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAV316	SOD-323	7 Inch	3000