

BAV19FL-BAV21FL

SURFACE MOUNT SWITCHING DIODES

Forward Current- 250mA

Reverse Voltage-120V to 250V

FEATURES

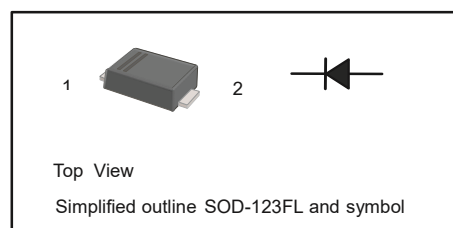
- ◆ For surface mount applications
- ◆ Glass passivated chip junction
- ◆ Fast reverse recovery time
- ◆ Ideal for automated placement
- ◆ Lead free in comply with EU RoHS2011/65/EU directives

MECHANICAL DATA

- ◆ Case: SOD-123FL molded plastic body
- ◆ Epoxy: UL 94V-0 rate flame retardant
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any
- ◆ Weight: : Approximated 0.015 grams

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	BAV19FL	BAV20FL	BAV21FL	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	120	200	250	V
Maximum RMS Voltage	V_{RMS}	100	150	200	V
Reverse Breakdown Voltage at $I_R=100\mu A$	$V_{(BR)R}$	120	200	250	V
Maximum Forward Current	I_F	250			mA
Repetitive Peak Forward Current	I_{FRM}	625			mA
Peak Forward Surge Current at 1s 1ms 1us	I_{FSM}	1 3 9			A
Maximum Forward Voltage at 100mA 200mA	V_F	1.00 1.25			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ C$ $T_A=150^\circ C$	I_R	0.1 100			μA
Typical Junction Capacitance $V_R=4V, f=1MHz$	C_J	5			pF
Power Dissipation	P_D	500			mW
Maximum Reverse Recovery Time	T_{rr}	50			nS
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150			$^\circ C$

Dated: 03/2016
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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

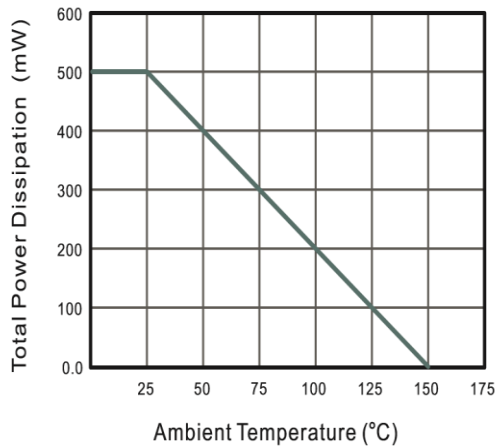


Fig.2 Typical Reverse Characteristics

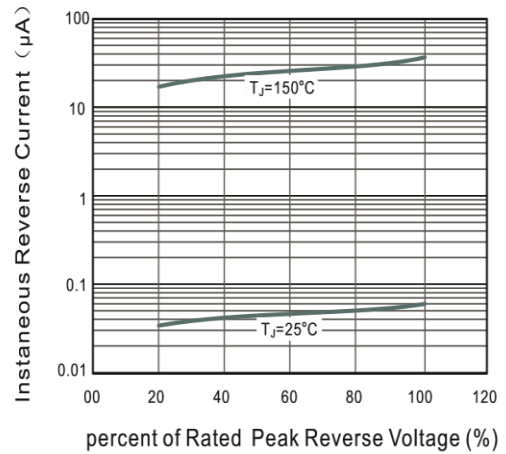


Fig.3 Typical Instantaneous Forward Characteristics

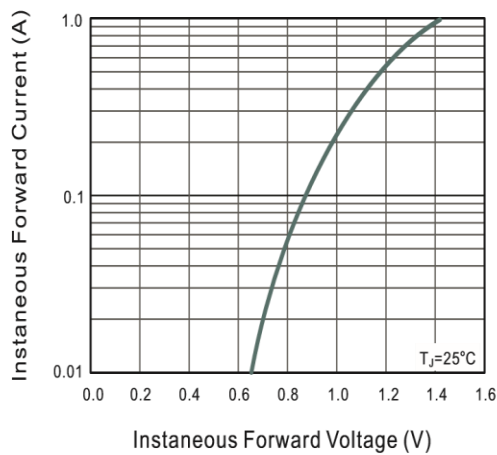
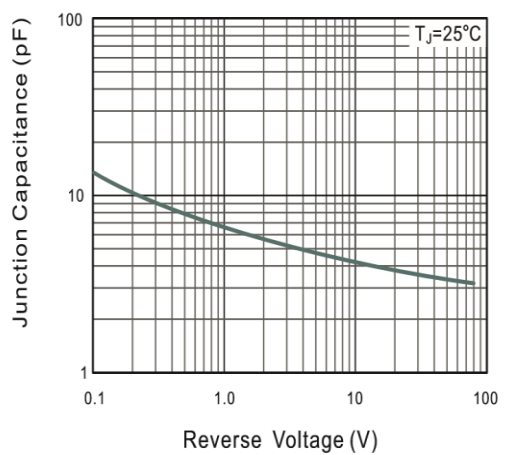


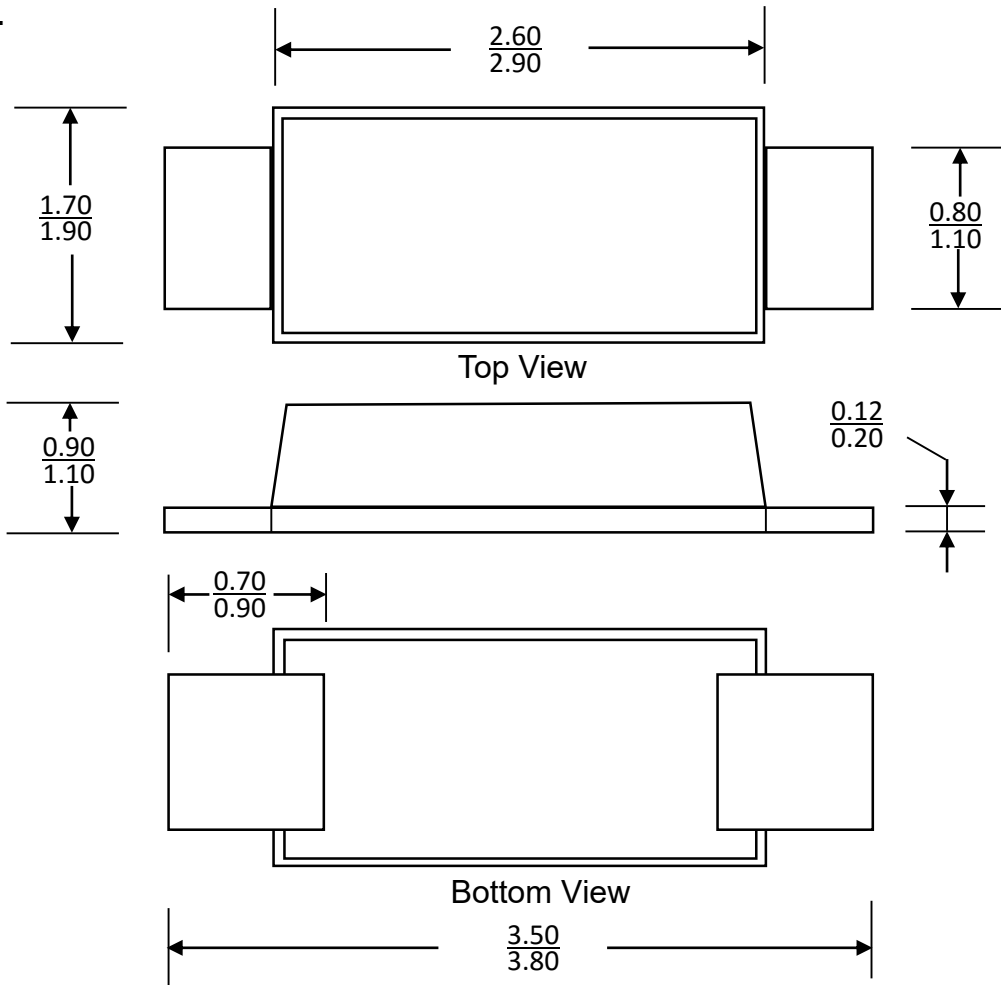
Fig.4 Typical Junction Capacitance



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PACKAGE OUTLINE

SOD-123FL



Dimensions in millimeters

ORDERING INFORMATION

Device	Package	Shipping
BAV19FL	SOD-123FL	3,000/Tape & Reel (7 inches)
BAV20FL		
BAV21FL		

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