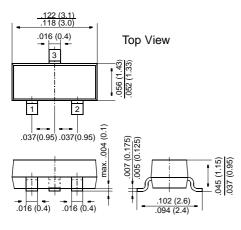
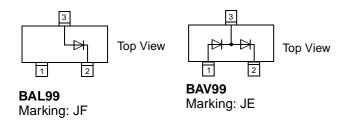
BAL99, BAV99

Small Signal Diodes

<u>SOT-23</u>



Dimensions in inches and (millimeters)



FEATURES

- Silicon Epitaxial Planar Diode
- Fast switching diodes, especially suited for automatic insertion.



 This diode is also available in other configurations including a dual common cathode with type designation BAV70 and a dual common anode with type designation BAW56.

MECHANICAL DATA

Case: SOT-23 Plastic Package Weight: approx. 0.008 g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings for a single diode at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified.

	Symbol	Value	Unit
Reverse Voltage, Peak Reverse Voltage	V _R , V _{RM}	70	V
Forward Current (continuous)	IF	250	mA
Non-Repetitive Peak Forward Current at t = 1 μ s at t = 1 ms at t = 1 s	I _{FSM} I _{FSM} I _{FSM}	2 1 0.5	A A A
Power Dissipation at $T_{amb} = 25 \text{ °C}$	P _{tot}	350 ¹⁾	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	T _S	-65 to +150	°C
¹⁾ Device on fiberglass substrate, see layout.	· · ·		

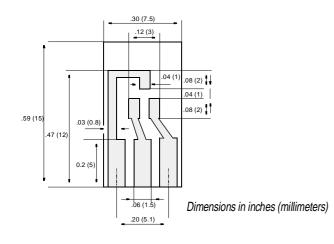


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ELECTRICAL CHARACTERISTICS

Ratings for one diode at 25 °C ambient temperature unless otherwise specified

		0.715 0.855 1.0 1.25 2.5 100	V V V V
		100	μA
	-	30	μA
-	-	1.5	pF
_	-	6	ns
_	-	430 ¹⁾	K/W
	-		



Layout for R_{thJA} test Thickness: Fiberglass 0.059 in (1.5 mm) Copper leads 0.012 in (0.3 mm)

