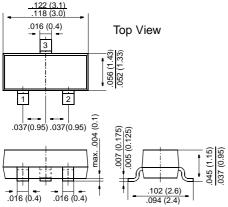
Small Signal Diodes

SOT-23



Dimensions in inches and (millimeters)

FEATURES

- Silicon Epitaxial Planar Diodes
- Fast switching dual diode with common cathode

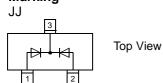


This diode is also available in other configurations including: a dual anode to cathode with type designation BAV99, a dual common anode with type designation BAW56, and a single diode with type designation BAL99.

MECHANICAL DATA

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

Marking



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings for a single diode at 25 °C ambient temperature unless otherwise specified.

Value Ur
л 70 V
250 m
2 A 1 A 0.5 A
350 ¹⁾ m ¹
150 °C
−65 to +150 °C



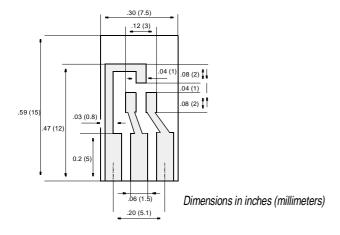
BAV70

ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 50$ mA at $I_F = 150$ mA	V _F V _F V _F	_ _ _ _	- - - -	0.715 0.855 1.0 1.25	V V V
Leakage Current at $V_R = 70 \text{ V}$ at $V_R = 70 \text{ V}$, $T_j = 150 \text{ °C}$ at $V_R = 25 \text{ V}$, $T_j = 150 \text{ °C}$	I _R I _R I _R	_ _ _	- - -	2.5 100 30	μΑ μΑ μΑ
Capacitance at $V_F = V_R = 0$, $f = 1$ MHz	C _{tot}	-	_	1.5	pF
Reverse Recovery Time from I_F = 10 mA to I_R = 10 mA measured at I_R = 1 mA, R_L = 100 Ω	t _{rr}	_	-	6	ns
Thermal Resistance Junction to Ambient Air	R _{thJA}	_	-	4301)	K/W

¹⁾ Device on fiberglass substrate, see layout



Layout for R_{thJA} test

Thickness: Fiberglass 0.059 in (1.5 mm) Copper leads 0.012 in (0.3 mm)

