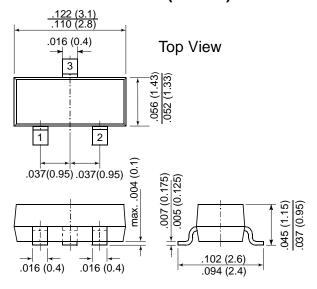




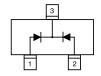
Dual Small-Signal Diode

TO-236AB (SOT-23)



Dimensions in inches and (millimeters)

Marking Code: JJ



Features

- Silicon Epitaxial Planar Diode
- Fast switching dual diode with common cathode
- This diode is also available in other configurations including: a dual common anode to cathode with type designation BAV99, a dual common anode with type designation BAW56, and a single diode with type designation BAL99.

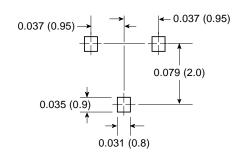
Mechanical Data

Case: SOT-23 Plastic Package

Weight: approx. 0.008g **Packaging Codes/Options:**

E8/10K per 13" reel (8mm tape), 30K/box E9/3K per 7" reel (8mm tape), 30K/box

Mounting Pad Layout



Maximum Ratings and Thermal Characteristics (TA = 25°C unless otherwise noted)

Parameter		Symbol	Value	Unit	
Reverse Voltage, Peak Reverse Voltage		VR , VRM	70	V	
Forward Current (continuous)		lF	250	mA	
Non-repetitive Peak Forward Current	at t = 1µs at t = 1ms at t = 1s	IFSM	2 1 0.5	А	
Power Dissipation at T _{amb} = 25°C		Ptot	350 ⁽¹⁾	mW	
Thermal Resistance Junction to Ambiant Air		R _Θ JA	430 ⁽¹⁾	°C/W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		Ts	-65 to +150	°C	

Note:

(1) Device on Fiberglass substrate, see layout on second page.



Dual Small-Signal Diode

Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Forward Voltage	VF	at I _F = 1mA	_	_	0.715	V
		at I _F = 10mA	_	_	0.855	
		at IF = 50mA	_	_	1.0	
		at I _F = 150mA	_	_	1.25	
Leakage Current	IR	V _R = 70V	_	_	2.5	μА
		$V_R = 70V, T_j = 150^{\circ}C$	_	_	100	
		$V_R = 25V, T_j = 150$ °C	_	–	30	
Capacitance	C _{tot}	$V_F = V_R = 0$ f = 1MHz		_	1.5	pF
Reverse Recovery Time	trr	$I_F = 10mA, \ I_R = 10mA$ $I_{rr} = 1mA, \ R_L = 100\Omega$	_	_	6	ns

Layout for R_⊙J_A test

Thickness: Fiberglass 0.059 in. (1.5 mm)

