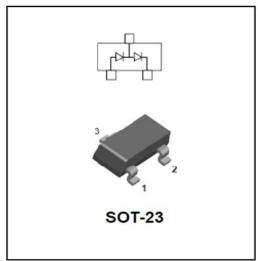




Small-Signal Fast Switching Diodes



Features

- VR 100V
- I_{FAV} single diode loaded 215mA double diode loaded 125mA

Typical Applications

Low-Leakage

Mechanical Data

• Package: SOT23

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

●Marking: JY

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		85
Reverse voltage	V _R	V	IR=100uA	100
Peak forward surge current	IFSM	Α	Non-Repetitive t = 1 μs	4
Average forward current	I _{FAV}	mA	single diode loaded	215
			double diode loaded	125
Power dissipation	P _{tot}	mW		250
Maximum junction temperature	T _j	$^{\circ}$		150
Storage temperature range	T _{stg}	$^{\circ}$		-55 to +150

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

a Electrical Characteristics (1a-20 Comess otherwise specifica)							
PARAMETER	Symbol	UNIT	Conditions	Min	Max		
Breakdown Voltage	V _R	V	IR=100uA	100			
	V _F	V	IF=1mA		0.9		
Farmer I Waltern			IF=10mA		1.0		
Forward Voltage			IF=50mA		1.1		
			IF=150mA		1.25		
Reverse Leakage Current	I _R	nA	VR=75V		5		
Capacitance	С	pF	VR=0V,f=1MHz		4		
Reverse Recovery Time	Trr	us	IF=IR=10mA, Irr=0.1*IR, RL=100Ω		3		

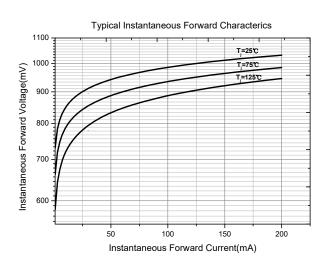


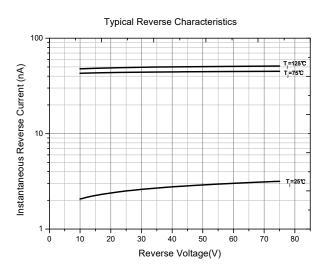
BAV199

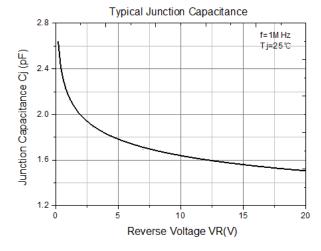
■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV199	F2	Approximate 0.008	3000	30000	120000	7" reel

■ Characteristics (Typical)

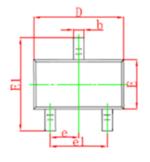


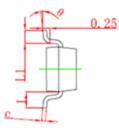


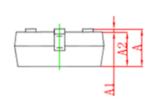




■SOT-23 Package Outline Dimensions

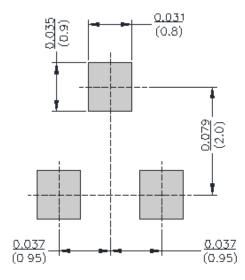






Symbol -	Dimensions In	n Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
A	0. 900	1. 150 0. 035		0.045	
A1	0.000	0. 100	0.000	0.004	
A2	0.900	1. 050	0. 035	0. 041	
ь	0.300	0. 500	0.012	0.020	
c	0. 100	0. 200	0.004	0.008	
D	2, 800	3, 000	0. 110	0.118	
Е	1. 200	1. 400	0.047	0.055	
E1	2. 250	2. 550	0.089	0.100	
e	0.95	OTYP	0. 037TYP		
e1	1.800	2. 000	0.071	0. 079	
L	0.55	OREF	0. 022REF		
L1	0.300	0. 500	0.012	0.020	
θ	0°	8°	0°	8°	

■SOT-23Suggested Pad Layout





BAV199

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