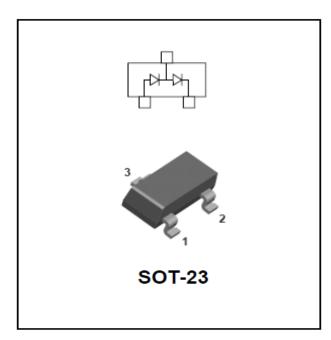




Dual Switching Diode



Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

Mechanical Data

• Package: SOT-23

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: Cathode line denotes the cathode end

• Marking: A7

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

Item	Symbol	Unit	Value
Peak Reverse Voltage	V_{RRM}	V	100
Reverse Voltage	V _R	V	75
Forward Continuous Current@f>=50Hz, Per Leg	I _F	mA	200
Non-Repetitive Peak Forward Surge Current @8.3ms, Half sine-wave, Per Leg	I _{FSM}	Α	2.0
Power Dissipation	P_{D}	mW	350
Maximum Thermal Resisance	R _{thJA}	°C/W	357
Operating Junction Temperature	TJ	$^{\circ}$ C	-55 to +150
Storage Temperature	T _{STG}	$^{\circ}$ C	-55 to +150

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV99	F2	Approximate 0.008	3000	30000	120000	7" reel

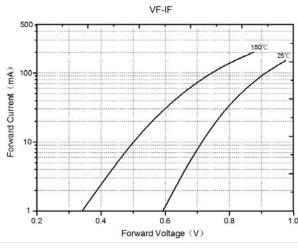


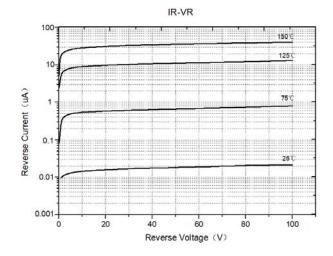


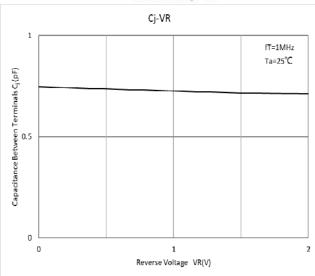
■Electrical Characteristics (Ta=25°C Unless otherwise specified, Per Leg)

Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V _R	V	I _R =100uA	75
Forward Voltage	V _F	V	I _F =1mA	0.715
			I _F =10mA	0.855
			I _F =50mA	1.00
			I _F =150mA	1.25
Maximum DC Reverse Current	I _R	uA	V _R =75V	2.5
Typical Junction Capacitance	С	pF	f=1.0MHz, V _R =0V	4
Reverse Recovery Time	T _{rr}	ns	I_F =10mA, V_R =6V, R_L =100 Ω , I_{rr} =1mA	4

■ Typical Characteristics (Per Leg)

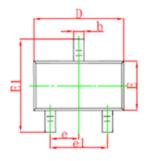


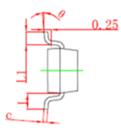


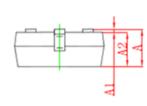




■SOT-23 Package Outline Dimensions

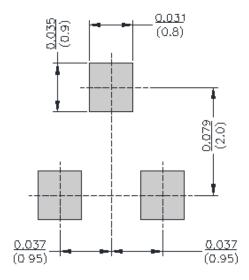






Symbol -	Dimensions In	n Millimeters	Dimensions In Inches		
Symool	Min	Max	Min	Max	
A	0. 900	1. 150	0. 035	0. 045	
A1	0.000	0. 100	0.000	0.004	
A2	0. 900	1. 050	0. 035	0. 041	
b	0.300	0. 500	0.012	0. 020	
с	0. 100	0. 200	0.004	0.008	
D	2.800	3.000	0. 110	0. 118	
Е	1. 200	1. 400	0. 047	0. 055	
E1	2. 250	2. 550	0.089	0.100	
e	0.95	OTYP	0. 037TYP		
el	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-23 Suggested Pad Layout





BAV99

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