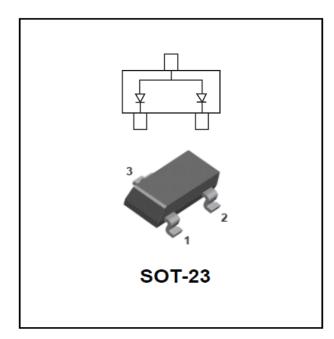




# **Dual Switching Diode**



#### **Features**

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

#### **Mechanical Data**

• Package: SOT-23

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:A1

### ■Maximum Rating, (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Reverse Voltage	$V_R$	V	100
Forward Continuous Current	I <sub>FAV</sub>	mA	200
Non-Repetitive Peak Forward Surge Current @8.3ms, Half sine-wave, Per Leg	I <sub>FSM</sub>	Α	2.0
Power Dissipation	$P_{D}$	mW	350
Thermal Resistance Junction to Ambient Air	R <sub>thJA</sub>	°C/W	357
Operating Junction Temperature	ction Temperature T <sub>J</sub> °C -55 to +150		-55 to +150
Storage Temperature	T <sub>STG</sub>	$^{\circ}$ 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
BAW56	F2	Approximate 0.008	3000	30000	120000	7" reel

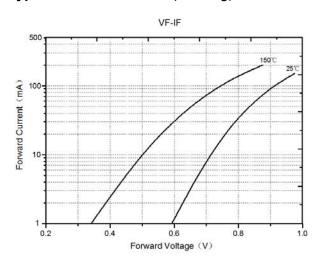


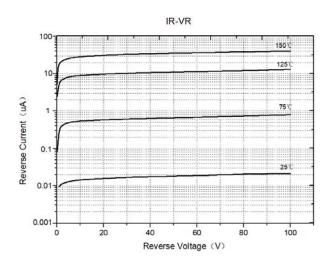


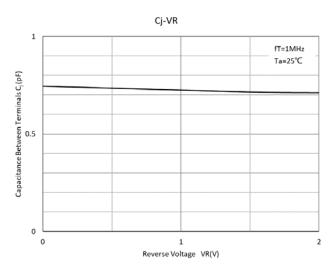
# **■Electrical Characteristics** (Ta=25°C Unless otherwise specified, Per Leg)

Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V <sub>R</sub>	V	IR=100uA	100
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	V	I <sub>F</sub> =10mA, Ta=25°C	0.855
			I <sub>F</sub> =150mA, Ta=25°C	1.25
Maximum DC Reverse Current	I <sub>R</sub>	uA	V <sub>R</sub> =75V	2.5
Typical Junction Capacitance	Сл	pF	f=1.0MHz, V <sub>R</sub> =0V	4
Reverse Recovery Time	Trr	ns	$I_F$ =10mA, $V_R$ =6V, $R_L$ =100 $\Omega$ , $I_{rr}$ =1mA	4

# ■ Typical Characteristics (Per Leg)

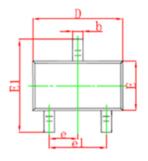


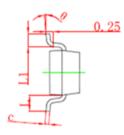


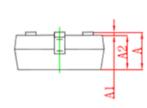




# ■SOT-23 Package Outline Dimensions

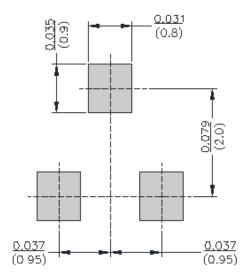






Symbol	Dimensions In	Millimeters	Dimensions In Inches			
	Min	Max	Min	Max		
A	0. 900	1. 150	0.035	0. 045		
A1	0.000	0. 100	0.000	0.004		
A2	0. 900	1. 050	0.035	0. 041		
b	0. 300	0.500	0.012	0. 020		
с	0. 100	0. 200	0.004	0.008		
D	2.800	3.000	0. 110	0. 118		
Е	1. 200	1. 400	0.047	0. 055		
E1	2. 250	2. 550	0.089	0. 100		
e	0.95	0. 950TYP		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-23Suggested Pad Layout





### **BAW56**

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