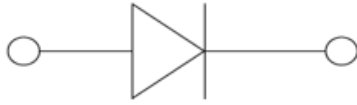


Small Signal Switching Diodes



SOD323

Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- V_{RRM} 120V to 250V
- I_{FAV} 200mA
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

- General Purpose Switches Diodes

Mechanical Data

- **Case:** SOD323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:**

	Marking
BAV19WSQ	A8
BAV20WSQ	T2
BAV21WSQ	T3

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	PART	VALUE
Reverse Voltage	V_R	V		BAV19WSQ	100
				BAV20WSQ	150
				BAV21WSQ	200
Repetitive Peak Reverse Voltage	V_{RRM}	V		BAV19WSQ	120
				BAV20WSQ	200
				BAV21WSQ	250
Average Forward Current	I_{FAV}	mA			200
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	$t_p < 10\text{ms}$		1.7
Power Dissipation	P_{tot}	mW			250
Thermal Resistance Junction to Ambient	R_{thJA}	K/W			500
Maximum Junction Temperature	T_j	$^\circ\text{C}$			150
Storage Temperature Range	T_{stg}	$^\circ\text{C}$			-55 to +150



BAV19WSQ THRU BAV21WSQ

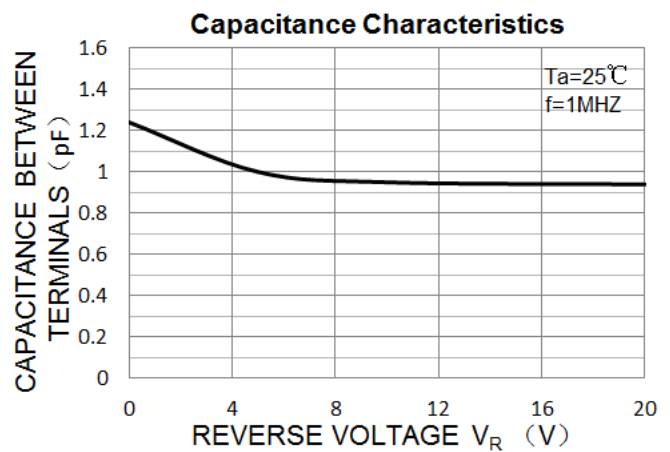
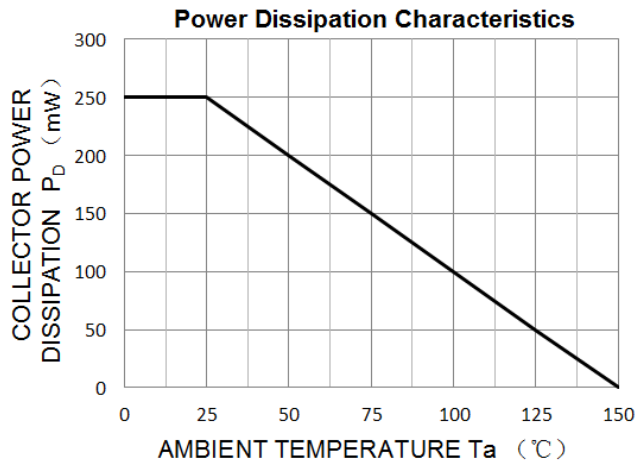
■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS		MIN	MAX
Reverse Voltage	V _R	V	BAV19WSQ	I _R =100uA	100	
			BAV20WSQ	I _R =100uA	150	
			BAV21WSQ	I _R =100uA	200	
Forward Voltage	V _F	V	I _F =100mA			1.0
			I _F =200mA			1.25
Reverse Current	I _R	μA	BAV19WSQ	V _R =100V		0.1
			BAV20WSQ	V _R =150V		0.1
			BAV21WSQ	V _R =200V		0.1
Diode Capacitance	C _D	pF	V _R =V _F =0V, f = 1MHz			5
Reverse Recovery Time	t _{rr}	ns	I _F =30mA, I _{rr} =0.1I _R , R _L =100Ω			50

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV19WSQ THRU BAV21WSQ	F2	Approximate 0.0045	3000	30000	120000	7" reel

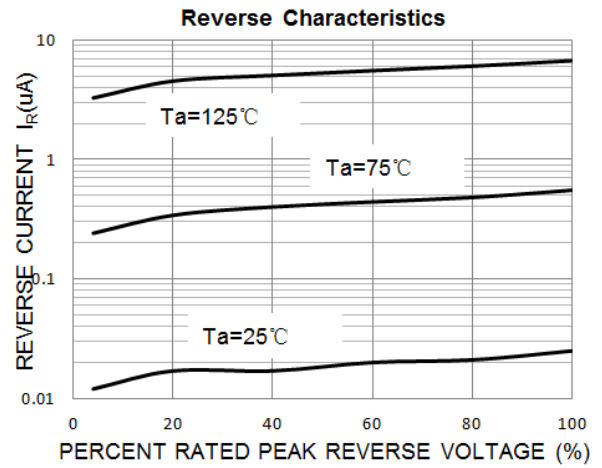
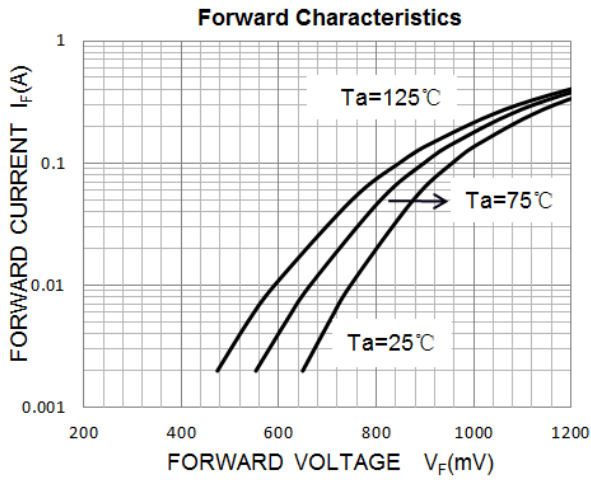
■ Characteristics (Typical)



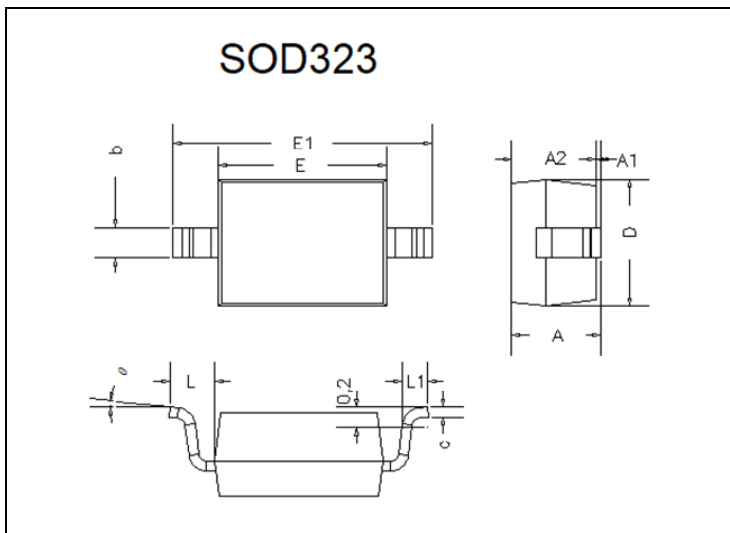


BAV19WSQ THRU BAV21WSQ

■ Characteristics (Typical)

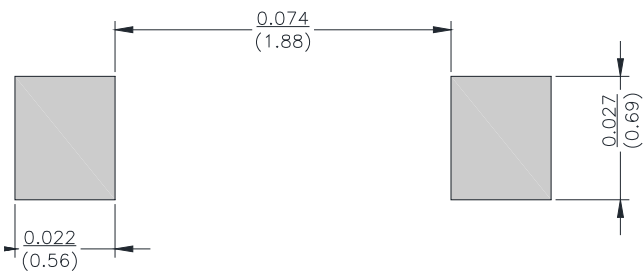


■ Outline Dimensions



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	-	0.039	-	1.00	
A1	0.000	0.004	0.00	0.10	
A2	0.031	0.035	0.80	0.90	
b	0.010	0.016	0.25	0.40	
c	0.003	0.007	0.08	0.17	
D	0.047	0.055	1.20	1.40	
E	0.063	0.071	1.60	1.80	
E1	0.098	0.106	2.50	2.70	
L	0.019REF		0.475REF		
L1	0.008	0.016	0.20	0.40	
θ	0°	8°	0°	8°	

■ Soldering Footprint



Unit: $\frac{\text{inch}}{\text{mm}}$



BAV19WSQ THRU BAV21WSQ

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