

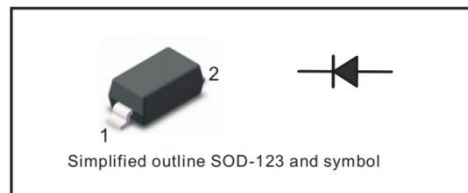
Features

- For surface mounted applications
- Glass passivated chip junction
- Fast reverse recovery time
- Ideal for auto mated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

Ordering Information

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Ordering Number	Marking	Package
BAV19W	A8	SOD-123
BAV20W	T2	SOD-123
BAV21W	T3	SOD-123

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter		Symbol	BVA19W	BAV20W	BAV21W	Units
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	120	200	250	V
Maximum RMS Voltage		V _{RMS}	100	150	200	V
Continuous Forward Current		I _F	250			mA
Repetitive Peak Forward Current		I _{FRM}	625			mA
Peak Forward Surge Current	at 1s	I _{FSM}	1			A
	at 1ms		3			
	at 1μs		9			
Total Power Dissipation		P _{tot}	500			mW
Operating and Storage Temperature Range		T _J ,T _{STG}	-55~+150			°C

Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter		Symbol	BVA19W	BAV20W	BAV21W	Units
Reverse Breakdown Voltage at I _R = 100uA		V _{(BR)R}	120	200	250	V
Maximum Forward Voltage	at 100mA	V _F	1.00			V
	at 200mA		1.25			
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	0.1			μA
	T _A =150°C		100			
Typical Junction Capacitance at V _R = 4V, f = 1MHz		C _J	5			pF
Maximum Reverse Recovery Time		t _{rr}	50			ns

Typical Characteristic

Fig.1 Forward Current Derating Curve

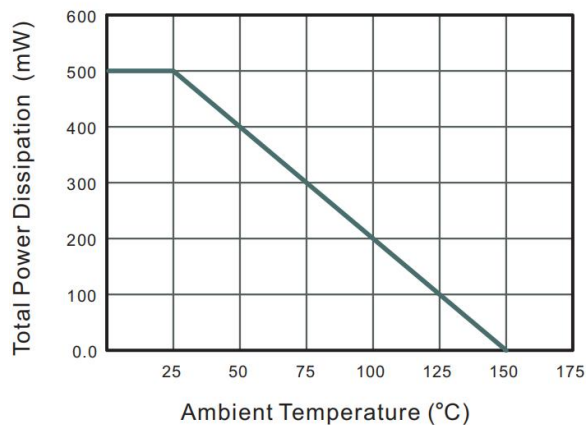


Fig.2 Typical Reverse Characteristics

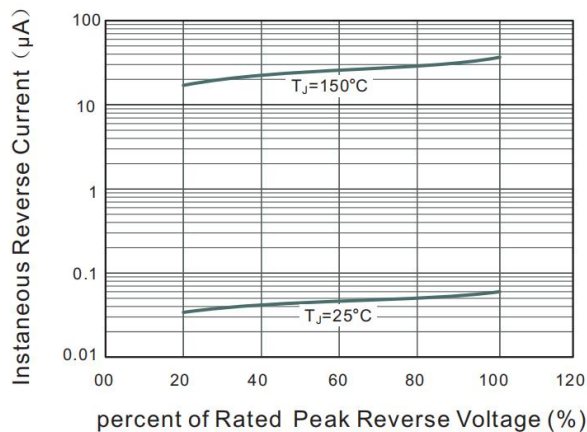


Fig.3 Typical Instantaneous Forward Characteristics

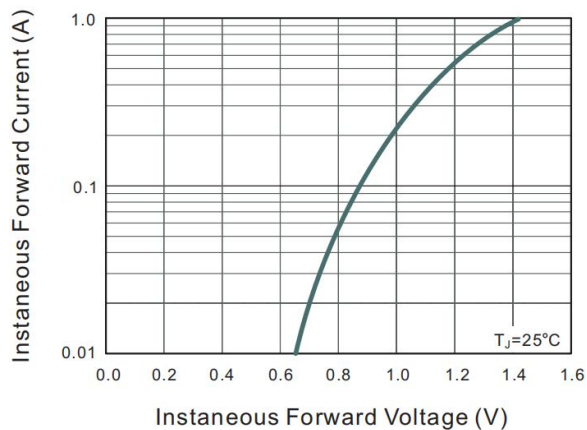
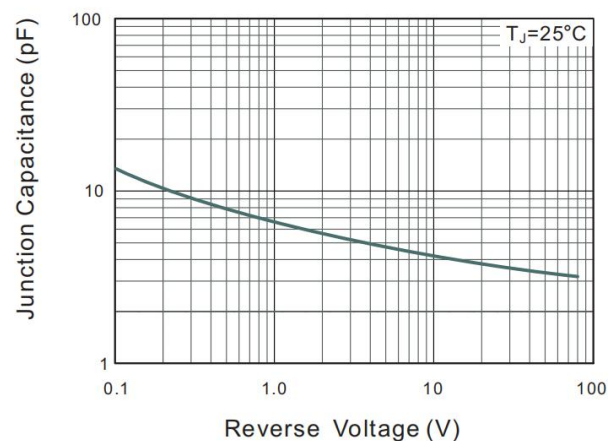


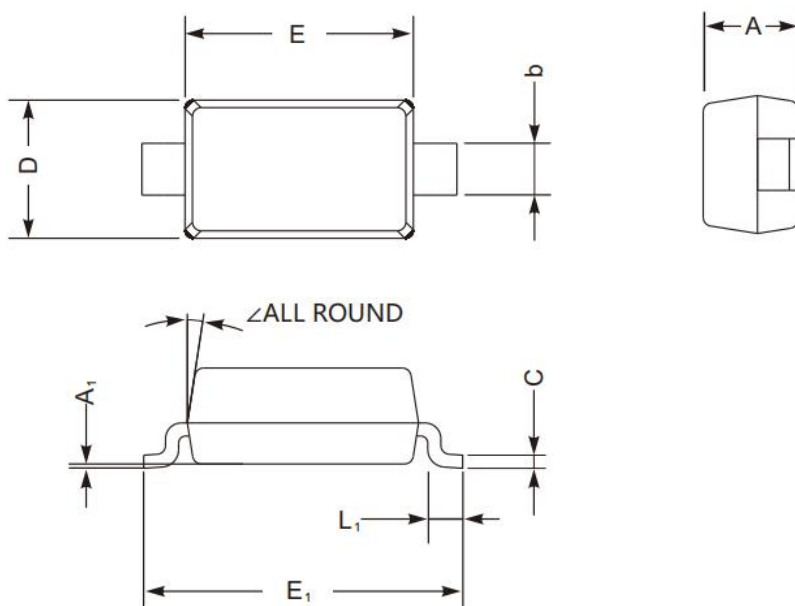
Fig.4 Typical Junction Capacitance



Package Information

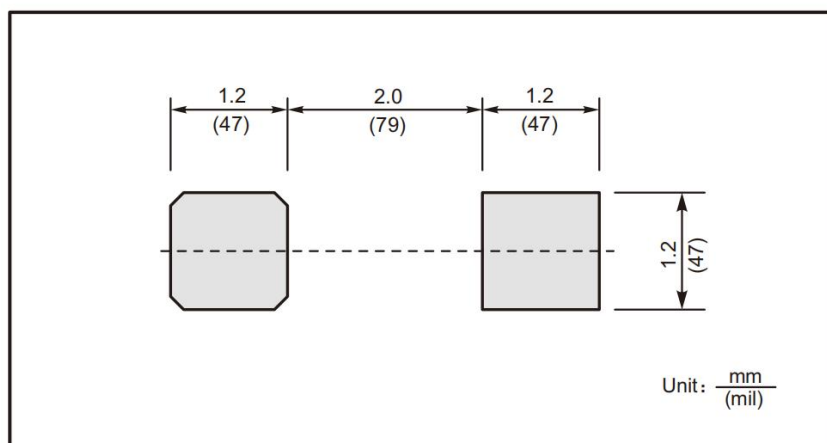
SOD-123

Dimensions in mm



Unit		A	C	D	E	E ₁	L ₁	b	A ₁	∠
mm	max	1.3	0.22	1.8	2.8	3.9	0.45	0.7	0.2	9°
	min	0.9	0.09	1.5	2.5	3.6	0.25	0.5	-	
mil	max	51	8.7	71	110	154	18	28	8	
	min	35	3.5	59	98	142	10	20	-	

The recommended mounting pad size



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