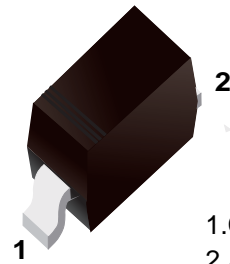


General Purpose Pin Diode

■ Features

- Low diode capacitance
- Low diode forward resistance



1.Cathode
2.Anode

■ Simplified outline(SOD-323)



■ Marking

Type number	Marking code
BAP50-03	A81

■ Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	BAP50-03	Units
Continuous Reverse Voltage $I_R = 10\mu A$	V_R	50	V
Continuous Forward Current	I_F	50	mA
Power dissipation	P_D	200	mW
Forward Voltage $I_F = 50\text{ mA}$	V_F	1.1	V
Reverse current $V_R = 50V, T_j = 25^\circ C$	I_R	100	nA
Diode capacitance $V_R = 0V, f = 1\text{MHz}$ $V_R = 1V, f = 1\text{MHz}$ $V_R = 5V, f = 1\text{MHz}$	C_T	0.91 0.55 0.35	pF
Diode forward resistance $I_F = 0.5\text{mA}, f = 100\text{MHz}$ $I_F = 1.0\text{mA}, f = 100\text{MHz}$ $I_F = 10\text{ mA}, f = 100\text{MHz}$	r_D	40 25 5	Ω
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-55 ~ +150	$^\circ C$

Fig.1 Power Derating Curve

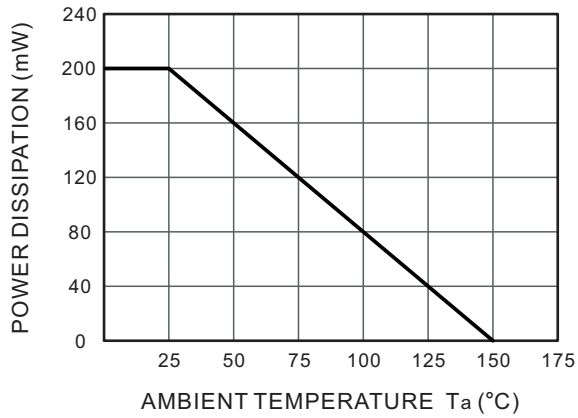


Fig.2 Typical Instaneous Reverse Characteristics

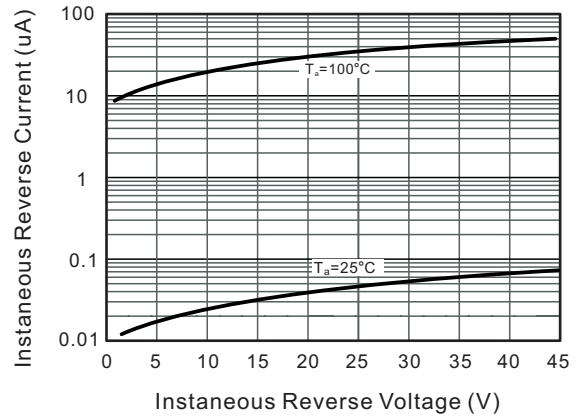


Fig.3 Typical Forward Characteristic

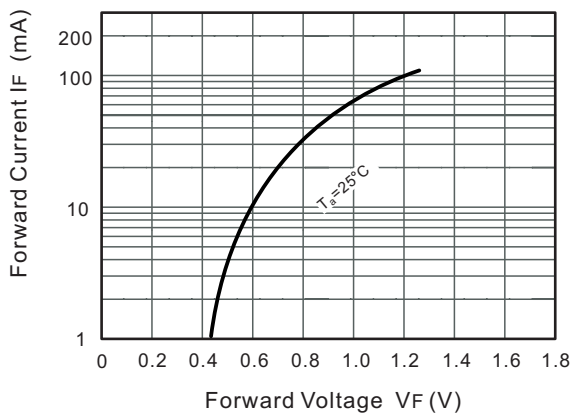
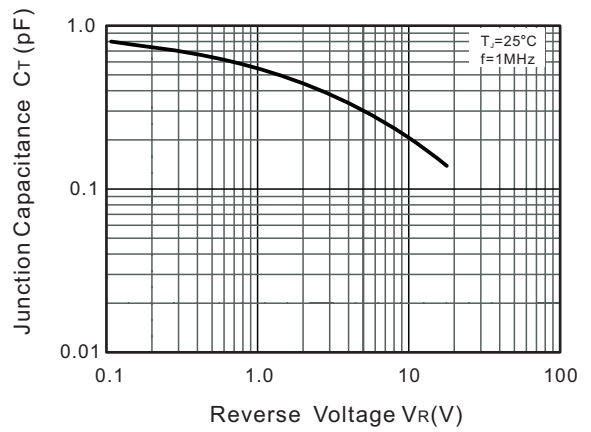
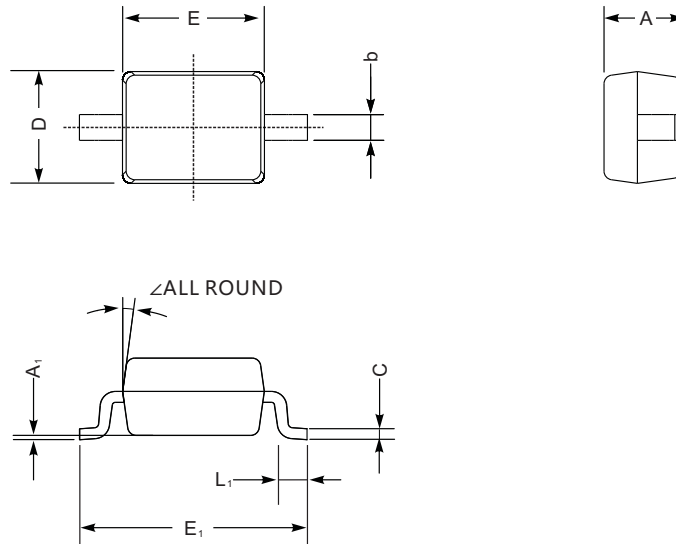


Fig.4 Typical Junction Capacitance



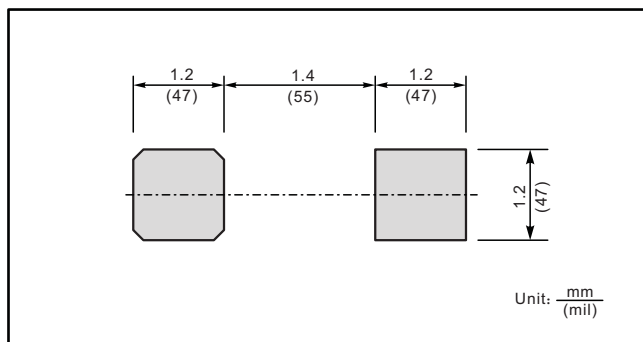
■ SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

■ The recommended mounting pad size



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