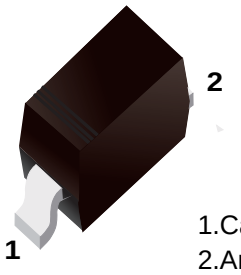
BAP50-03

General Purpose Pin Diode



1.Cathode
2.Anode

■ **Simplified outline(SOD-323)**

■ Features

- Low diode capacitance
- Low diode forward resistance

■ 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 = 10μA	V_R	50	V
Continuous Forward Current		I_F	50	mA
Power dissipation		P_D	200	mW
Forward Voltage	I_F=50 mA	V_F	1.1	V
Reverse current	V_R=50V,Tj=25℃	I_R	100	nA
Diode capacitance	V_R=0V,f=1MHz V_R=1V,f=1MHz V_R=5V,f=1MHz	C_T	0.91 0.55 0.35	pF
Diode forward resistance	IF=0.5mA , f=100MHz IF=1.0mA , f=100MHz IF=10 mA , f=100MHz	r_D	40 25 5	Ω
Junction Temperature		T_j	150	°C
Storage Temperature		T_{stg}	-55 ~ +150	°C

Fig.1 Power Derating Curve

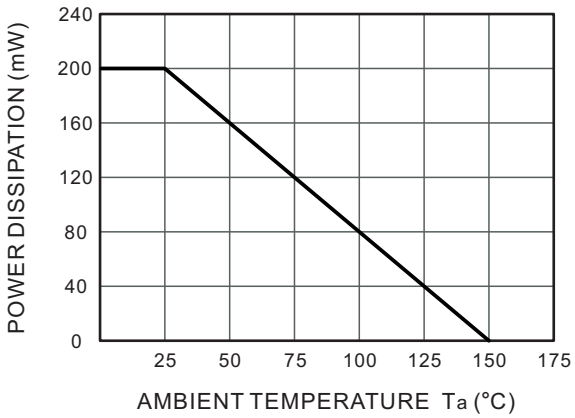


Fig.2 Typical Instaneous Reverse Characteristics

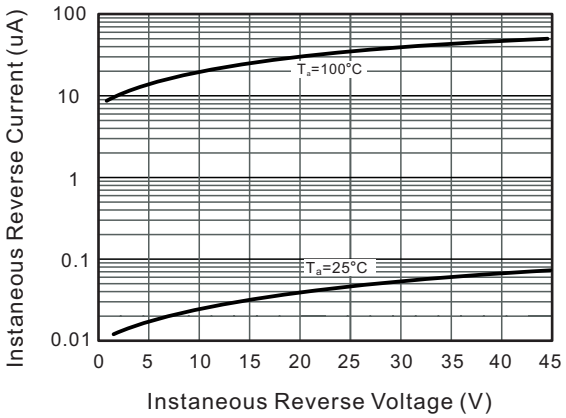


Fig.3 Typical Forward Characteristic

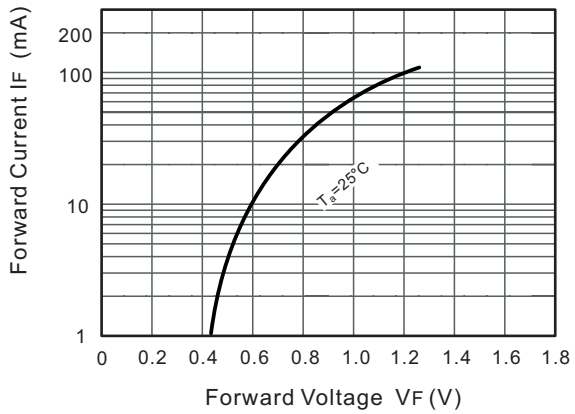
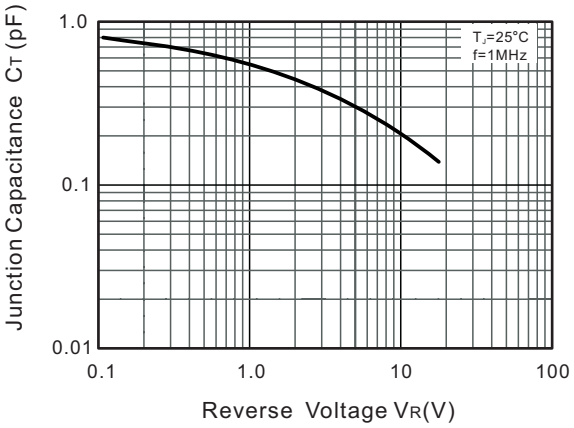
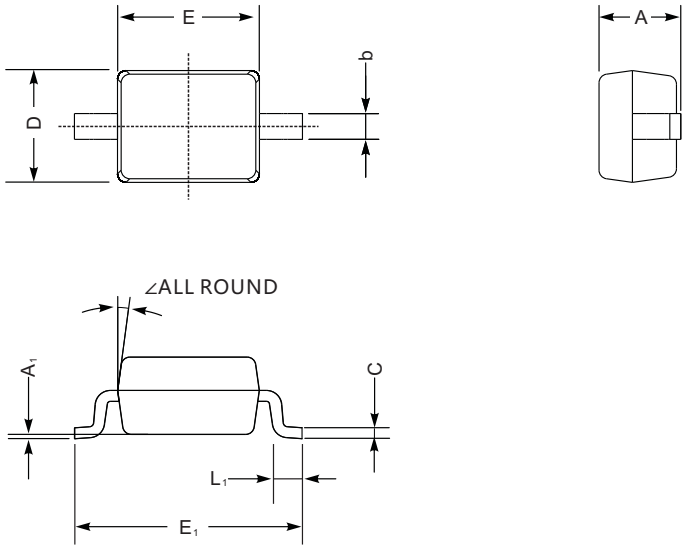


Fig.4 Typical Junction Capacitance



■ 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