

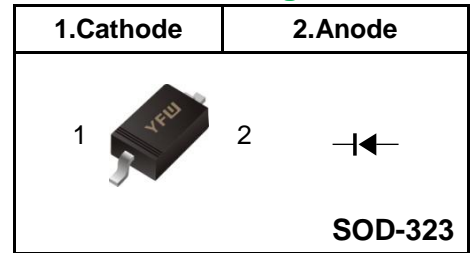
Plastic-Encapsulate Diodes

GENERAL PURPOSE PIN DIODE

FEATURES

- ↓Low diode capacitance
- ↓Low diode forward resistance

Pinning



Marking Code

BAP50-03	A81
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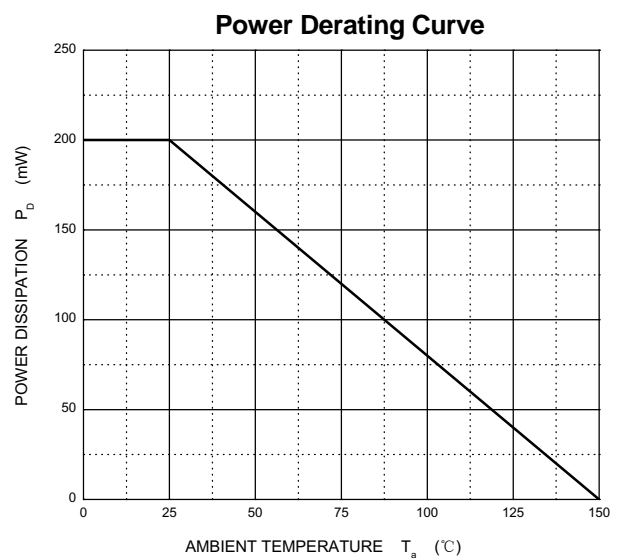
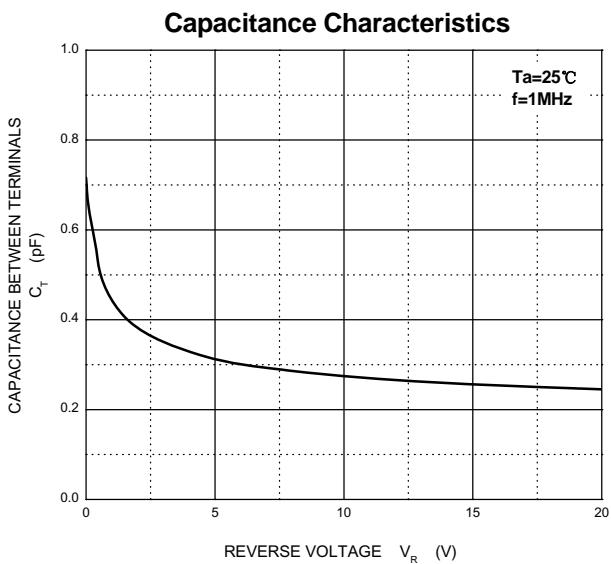
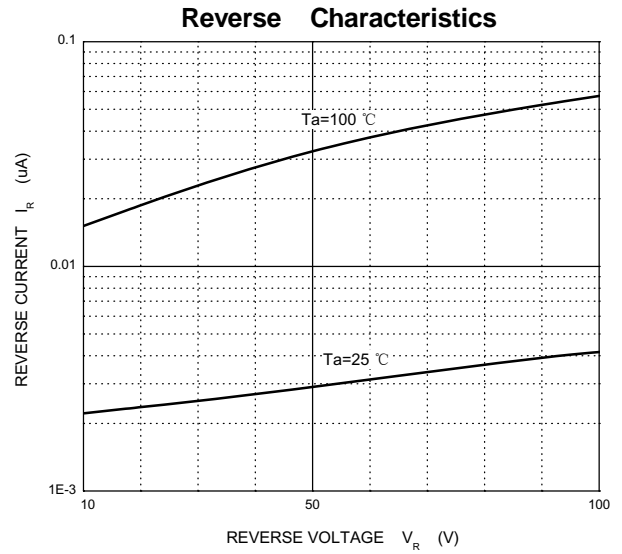
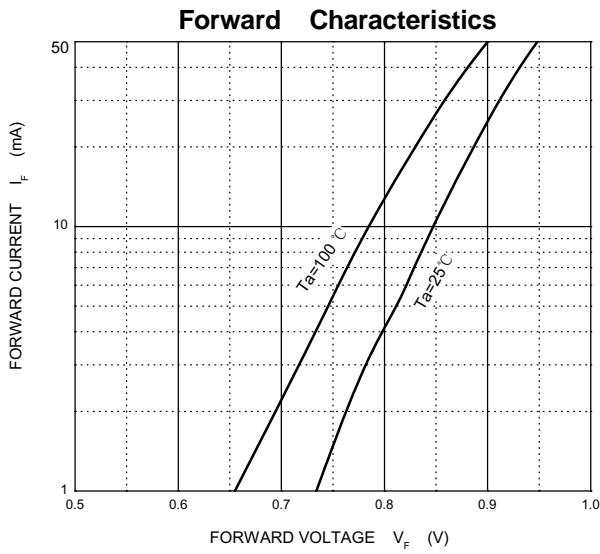
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Characteristics	Symbols	Value	Units
Continuous Reverse Voltage	V_R	50	V
Continuous Forward Current	I_F	50	mA
Power Dissipation (Ta=90°C)	P_D	200	mW
Thermal Resistance, Junction--Ambient	R_{θJA}	85	°C/W
Operating Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Electrical Ratings @Ta=25°C

Characteristics	Conditions	Symbols	Min	Typ	Max	Unit
Continuous reverse voltage	I _R =10μA	V_R	50	-	-	V
Forward voltage	I _F =50mA	V_F	-	-	1.1	V
Reverse curren	V _R =50V	I_R	-	-	100	nA
Diode capacitance	V _R =0V, f=1MHz	C_{d1}	-	-	0.91	pF
	V _R =1V, f=1MHz	C_{d2}	-	-	0.55	
	V _R =5V, f=1MHz	C_{d3}	-	-	0.35	
Diode forward resistance	I _F =0.5mA , f=100MHz; note1	r_D	-	-	40	Ω
	I _F =1mA , f=100MHz;note1	r_D	-	-	25	
	I _F =10mA , f=100MHz;note1	r_D	-	-	5	

Typical Characteristics



Ordering information

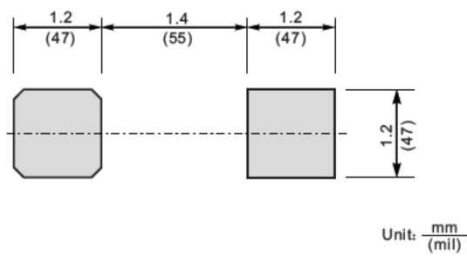
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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