

Plastic-Encapsulate Diodes

Low leakage switching diode

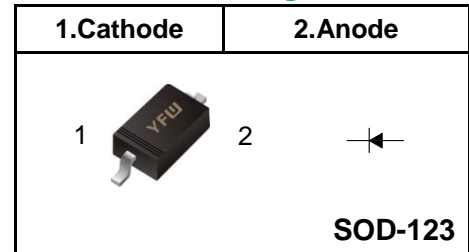
Features

- ◆Plastic SMD package
- ◆Low leakage current

Application

◆Low leakage current applications in surface mounted circuits.

Pinning



Marking Code

BAS116W	JV
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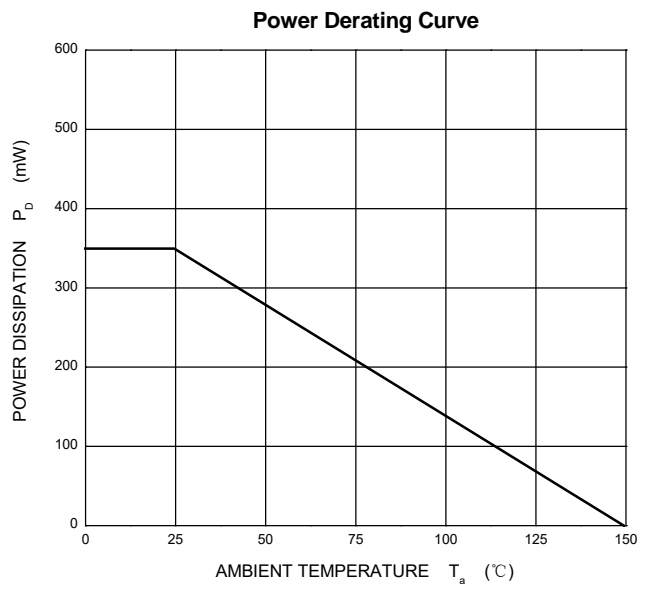
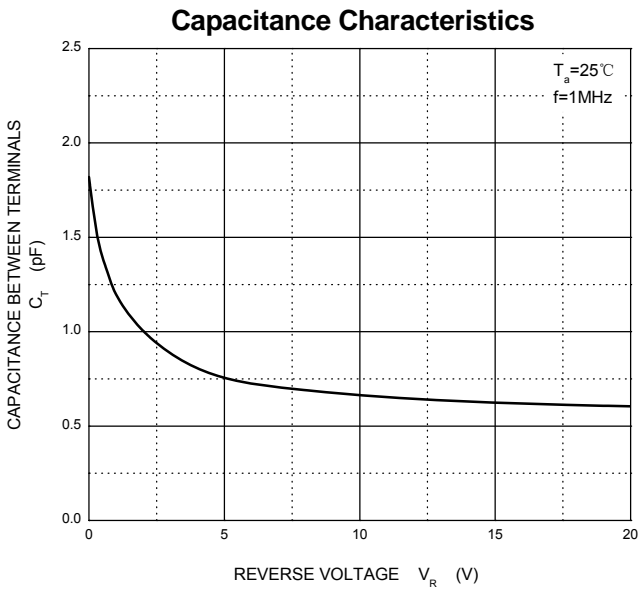
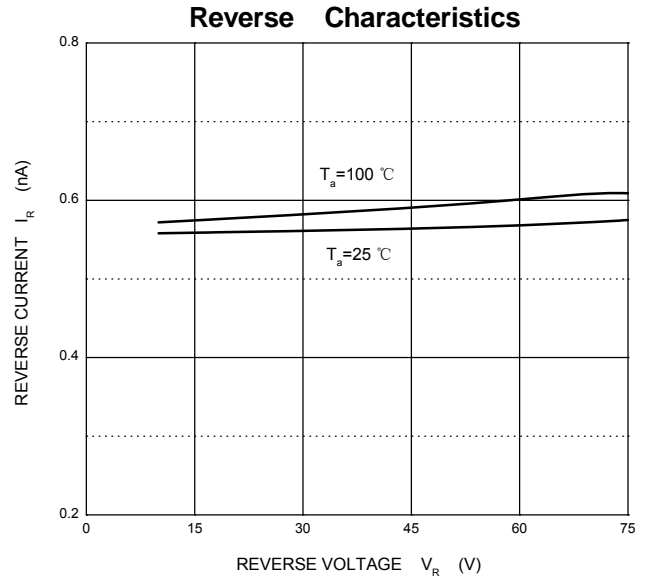
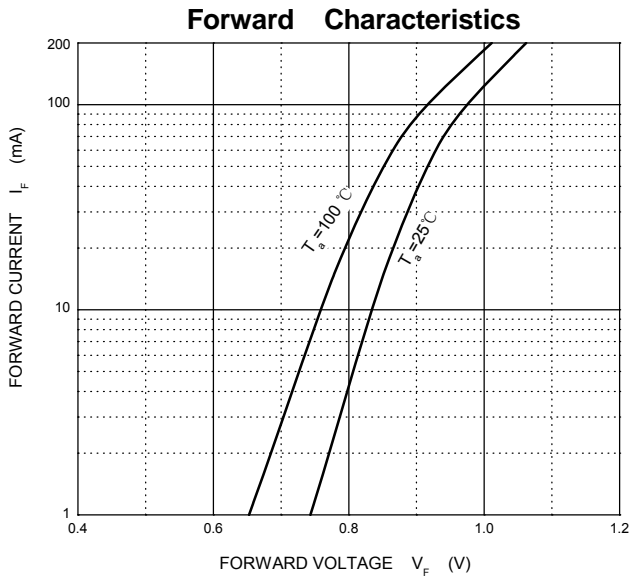
Absolute Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Continuous Forward Current	I_F	200	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	$t = 1 \mu s$	4
		$t = 1 ms$	1
		$t = 1 s$	0.5
Power Dissipation	P_{tot}	350	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 65 to + 150	°C

Characteristics at Ta = 25°C

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 1 mA$ at $I_F = 10 mA$ at $I_F = 50 mA$ at $I_F = 150 mA$	V_F	-	0.9	V
	V_F	-	1	V
	V_F	-	1.1	V
	V_F	-	1.25	V
Reverse Current at $V_R = 75 V$ at $V_R = 75 V, T_j = 150 °C$	I_R	-	5	nA
		-	80	
Diode Capacitance at $V_R = 0, f = 1 MHz$	C_d	2	-	pF
Reverse Recovery Time at $I_F = I_R = 10 mA, R_L = 100 \Omega, i_{rr} = 0.1 I_R$	t_{rr}	-	3	μs

Typical Characteristics



Ordering information

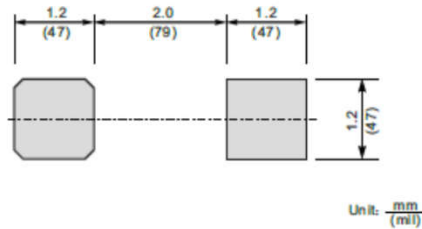
Package	Packing Description	Packing Quantity
SOD-123	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-123

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.3	35	51
C	0.09	0.22	3.5	8.7
D	1.5	1.8	59	71
E	2.5	2.8	98	110
E1	3.6	3.9	142	154
b	0.5	0.7	20	28
L1	0.25	0.45	10	18
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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