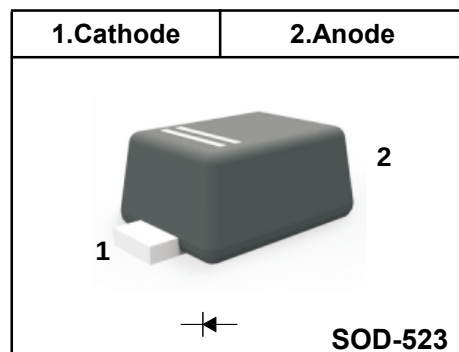


Silicon Epitaxial Planar Diodes

High Voltage Switching Diode

FEATURES

- ♦Fast switching speed
- ♦Surface mount package ideally suited for automatic insertion



Marking Code

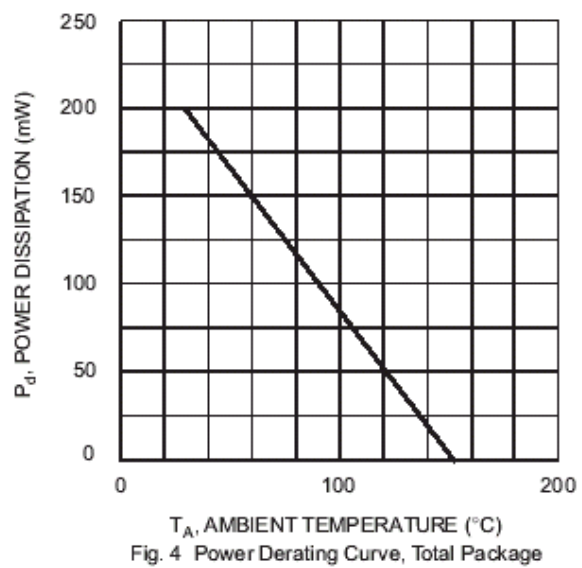
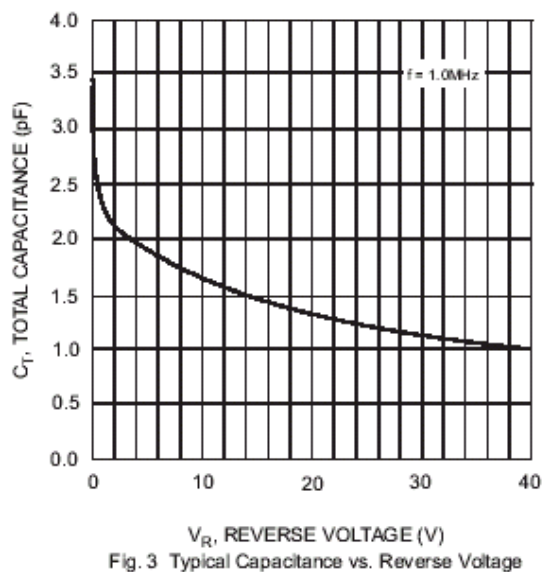
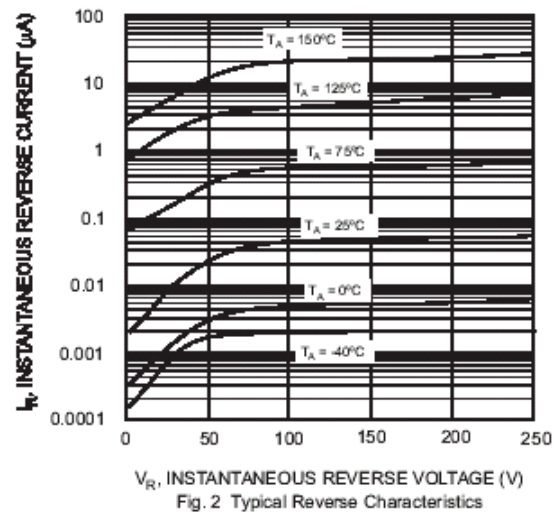
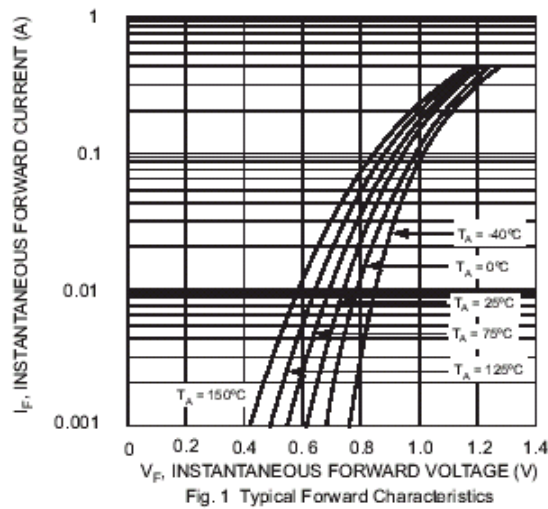
BAV19WT	JX
BAV20WT	T2
BAV21WT	T3

Absolute Maximum Ratings (Ta = 25 °C)

Parameter	Symbols	Value	Unit
Peak Repetitive Reverse Voltage	BAV19WT BAV20WT BAV21WT V_{RRM}	120 200 250	V
Reverse Voltage	BAV19WT BAV20WT BAV21WT V_R	100 150 200	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Forward Continuous Current	I_{FM}	400	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current at	$t = 1 \mu s$ at $t = 1 s$ I_{FSM}	2.5 0.5	A
Power Dissipation	P_{tot}	200	mW
Operating junction temperature range	T_j	-65 to +150	°C
Storage temperature rang	T_{stg}	-65 to +150	°C

Characteristics at Ta = 25 °C

Parameter	Symbols	Test Condition	Limits			Unit
			Min	Typ	Max	
Reverse Voltage	BAV19WT BAV20WT BAV21WT $V_{(BR)R}$	$I_R=100\mu A$	120 200 250	-	-	V
Reverse Leakage Current	BAV19WT BAV20WT BAV21WT I_R	$V_R=100V$ $V_R=150V$ $V_R=200V$	-	-	100 100 100	nA
Forward Voltage	V_F	$I_F=100mA$	-	-	1	V
		$I_F=200mA$	-	-	1.25	V
Capacitance	C_T	$V_R=0V, f=1MHZ$	-	-	5	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=30mA, I_{RR} = 0.1 \times I_R,$ $R_L=100\Omega$	-	-	50	ns



Ordering information

Package	Packing Description	Packing Quantity
SOD-523	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-523

Top view of the component. Dimension A is the height of the main body. HE is the length of the main body. C is the thickness of the base. A note indicates 'ALL ROUND' for the corners.

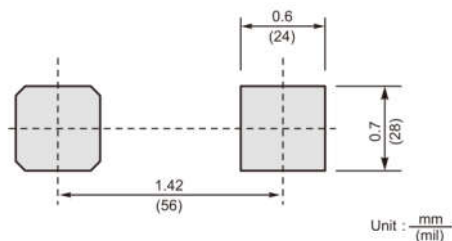
Side view of the component. Dimension A is the height of the main body. E is the length of the main body. P is the radius of the top edge.

Front view of the component. Dimension D is the width of the main body. E is the height of the main body. e is the height of the base. L is the length of the base.

Bottom view of the component. Dimension N is the width of the main body. The label '底视图 bottom view' is present.

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.51	0.77	20	30
e	0.25	0.35	10	14
C	0.08	0.15	3	6
D	1.10	1.30	43	51
E	0.75	0.99	30	39
HE	1.50	1.70	59	67
N	0.35ref		14ref	
L	0.2ref		8ref	
P	R0.1 ALL ROUND		R4.0 ALL ROUND	
∠	10°			

The recommended mounting pad size



Disclaimer

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