

Silicon Planar Zener Diodes

FEATURES

- ◆ Total power dissipation: Max. 500mW.
- ◆ Small plastic package suitable for surface mounted design.
- ◆ Tolerance approximately $\pm 5\%$.

Pinning

1.Cathode	2.Anode
	
SOD-123	

Absolute Maximum Ratings And Characteristics (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Power Dissipation (Note 1)	P_D	500	mW
Forward Voltage (Note 2) at I _F = 10 mA	V_F	0.9	V
Thermal Resistance from Junction to Ambient	R_{θJA}	340	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

Characteristics at Ta = 25°C

Type	Marking	Zener Voltage Range ⁽¹⁾			I _{ZT}	Dynamic Impedance	Reverse Current	
		V _{ZT} (at I _{ZT})				Z _{ZT} (at I _{ZT})	I _R	at V _R
		Min (V)	Nom (V)	Max (V)		(mA)	Max (Ω)	Max (μA)
BZT52C2V2	4B	2.16	2.2	2.24	5	100	120	0.7

(1) V_{ZT} is tested with pulses (20 ms)

Ordering information

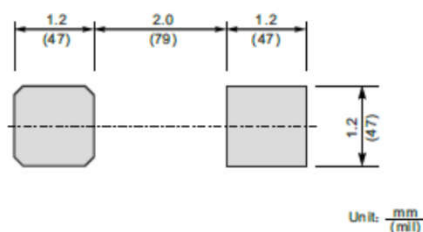
Package	Packing Description	Packing Quantity
SOD-123	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

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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