贴片二极管 SOD-123 封装规格参数

（HDZ2V4D12~HDZ39VD12 范围）

Hottech Semiconductor

HDZ2V4D12~HDZ39VD12

ZENER DIODE

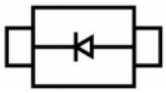
GENERAL : **BZT52C2V4~BZT52C39**

FEATURES

- Medium Current
- 350mW Power Dissipation
- Surface Mount device
- General purpose



SOD-123



MECHANICAL DATA

- Case: SOD-123
- Case Material: Molded Plastic. UL lammability
- Classification Rating: 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.008 grams (approximate)

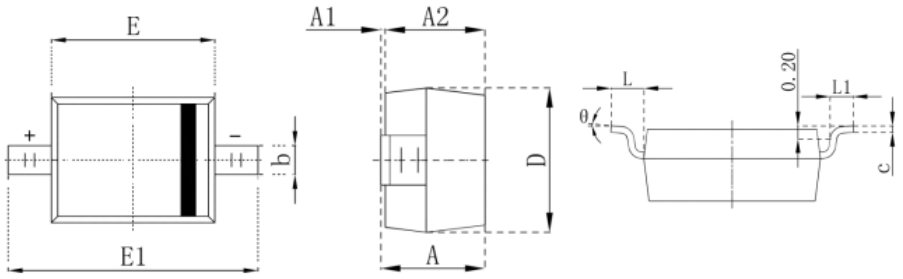
MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Forward Voltage @ I_F=10mA	V_F	0.9	V
Power Dissipation	P_D	350	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 ~+150	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

f = 1kHz	Zener Voltage Range			Maximum Zener Impedance			Reverse		Forward		Power Dissipation
	V_Z @ I_{ZT}		I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R	V_R	I_F	V_F	P_D
TYPE	Nom(V)	Deviation(V)	(mA)	Ω		(mA)	(uA)	(V)	(mA)	(V)	(mW)
BZT52C2V4S	2.4	±0.2	5	100	600	1.0	50	1.0	10	0.9	350
BZT52C2V7S	2.7	±0.2	5	100	600	1.0	20	1.0	10	0.9	350
BZT52C3V0S	3.0	±0.2	5	95	600	1.0	10	1.0	10	0.9	350
BZT52C3V3S	3.3	±0.2	5	95	600	1.0	5	1.0	10	0.9	350
BZT52C3V6S	3.6	±0.2	5	90	600	1.0	5	1.0	10	0.9	350
BZT52C3V9S	3.9	±0.2	5	90	600	1.0	3	1.0	10	0.9	350
BZT52C4V3S	4.3	±0.3	5	90	600	1.0	3	1.0	10	0.9	350
BZT52C4V7S	4.7	±0.3	5	80	500	1.0	3	2.0	10	0.9	350
BZT52C5V1S	5.1	±0.3	5	60	480	1.0	2	2.0	10	0.9	350
BZT52C5V6S	5.6	±0.4	5	40	400	1.0	1	2.0	10	0.9	350
BZT52C6V2S	6.2	±0.4	5	10	150	1.0	3	4.0	10	0.9	350
BZT52C6V8S	6.8	±0.4	5	15	80	1.0	2	4.0	10	0.9	350
BZT52C7V5S	7.5	-0.5 ~ +0.4	5	15	80	1.0	1	5.0	10	0.9	350
BZT52C8V2S	8.2	±0.5	5	15	80	1.0	0.7	5.0	10	0.9	350
BZT52C9V1S	9.1	-0.6 ~ +0.5	5	15	100	1.0	0.5	6.0	10	0.9	350
BZT52C10S	10	±0.6	5	20	150	1.0	0.2	7.0	10	0.9	350
BZT52C11S	11	±0.6	5	20	150	1.0	0.1	8.0	10	0.9	350
BZT52C12S	12	-0.6 ~ +0.7	5	25	150	1.0	0.1	8.0	10	0.9	350
BZT52C13S	13	-0.6 ~ +1.1	5	30	170	1.0	0.1	8.0	10	0.9	350
BZT52C15S	15	-1.2 ~ +0.6	5	30	200	1.0	0.1	10.5	10	0.9	350
BZT52C16S	16	-0.7 ~ +1.1	5	40	200	1.0	0.1	11.2	10	0.9	350
BZT52C18S	18	-1.2 ~ +1.1	5	45	225	1.0	0.1	12.6	10	0.9	350
BZT52C20S	20	±1.2	5	55	225	1.0	0.1	14.0	10	0.9	350
BZT52C22S	22	-1.2 ~ +1.3	5	55	250	1.0	0.1	15.4	10	0.9	350
BZT52C24S	24	-1.2 ~ +1.6	5	70	250	1.0	0.1	16.8	10	0.9	350
BZT52C27S	27	±1.9	2	80	300	0.5	0.1	18.9	10	0.9	350
BZT52C30S	30	±2	2	80	300	0.5	0.1	21.0	10	0.9	350
BZT52C33S	33	±2	2	80	325	0.5	0.1	23.1	10	0.9	350
BZT52C36S	36	±2	2	90	350	0.5	0.1	25.2	10	0.9	350
BZT52C39S	39	±2	2	130	350	0.5	0.1	27.3	10	0.9	350

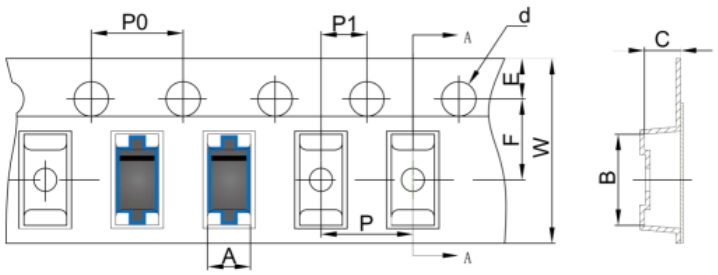
SOD-123 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 RE F		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

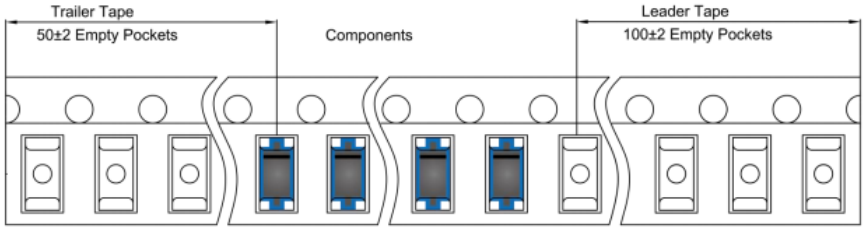
SOD-123 Tape and Reel

SOD-123 Embossed Carrier Tape

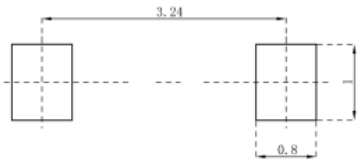


	DIMENSIONS ARE IN MILLIMETER									
TYPE	A	B	C	d	E	F	P0	P	P1	W
SOD-123	1.85	3.95	1.57	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

SOD-123 Tape Leader and Trailer



SOD-123 Suggested Pad Layout



Note:

1.Controlling dimension: in millimeters

2.General tolerance: ±0.05mm

3.The pad layout is for eference purposes only

以上便是贴片二极管 SOD-123 封装规格参数（HDZ2V4D12~HDZ39VD12 范围），希望对大家有所帮助，更多贴片二极管知识，合科泰官网将陆续更新，敬请期待；