

BZT52C...W

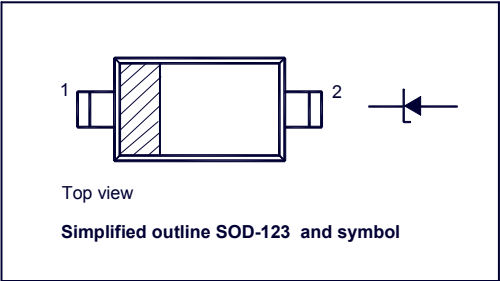
SILICON PLANAR ZENER DIODES

Features

- Ideally Suited for Automated Assembly Processes
- Total power dissipation: max. 500 mW

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

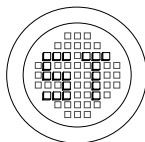


Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

	Symbol	Value	Unit
Power Dissipation	P_{tot}	500	mW
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-65 to +150	$^{\circ}\text{C}$

Characteristics at $T_{\text{amb}} = 25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	305	$^{\circ}\text{C}/\text{mW}$
Forward Voltage at $I_F = 10\text{ mA}$	V_F	-	0.9	V



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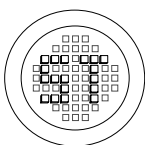
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Characteristics at $T_a = 25^\circ\text{C}$

Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance ²⁾			Reverse Leakage Current		Typical Temperature coefficient at I_{ZTC} mV/°C	Test Current I_{ZTC} (mA)
		V_{Znom} V	I_{ZT} mA	for V_{ZT} V	Z_{ZT} at I_{ZT} Ω (Max)	Z_{ZK} at I_{ZK} Ω (Max)	mA	I_R at V_R μA (Max)	V		
BZT52C2V4W	MH	2.4	5	2.2...2.6	100	600	1	50	1	-3.5...0	5
BZT52C2V7W	MJ	2.7	5	2.5...2.9	100	600	1	20	1	-3.5...0	5
BZT52C3V0W	MK	3.0	5	2.8...3.2	95	600	1	10	1	-3.5...0	5
BZT52C3V3W	MM	3.3	5	3.1...3.5	95	600	1	5	1	-3.5...0	5
BZT52C3V6W	MN	3.6	5	3.4...3.8	90	600	1	5	1	-3.5...0	5
BZT52C3V9W	MP	3.9	5	3.7...4.1	90	600	1	3	1	-3.5...0	5
BZT52C4V3W	MR	4.3	5	4...4.6	90	600	1	3	1	-3.5...0	5
BZT52C4V7W	MX	4.7	5	4.4...5	80	500	1	3	2	-3.5...0.2	5
BZT52C5V1W	MY	5.1	5	4.8...5.4	60	480	1	2	2	-2.7...1.2	5
BZT52C5V6W	MZ	5.6	5	5.2...6	40	400	1	1	2	-2...2.5	5
BZT52C6V2W	NA	6.2	5	5.8...6.6	10	150	1	3	4	0.4...3.7	5
BZT52C6V8W	NB	6.8	5	6.4...7.2	15	80	1	2	4	1.2...4.5	5
BZT52C7V5W	NC	7.5	5	7...7.9	15	80	1	1	5	2.5...5.3	5
BZT52C8V2W	ND	8.2	5	7.7...8.7	15	80	1	0.7	5	3.2...6.2	5
BZT52C9V1W	NE	9.1	5	8.5...9.6	15	100	1	0.5	6	3.8...7	5
BZT52C10W	NF	10	5	9.4...10.6	20	150	1	0.2	7	4.5...8	5
BZT52C11W	NH	11	5	10.4...11.6	20	150	1	0.1	8	5.4...9	5
BZT52C12W	NJ	12	5	11.4...12.7	25	150	1	0.1	8	6...10	5
BZT52C13W	NK	13	5	12.4...14.1	30	170	1	0.1	8	7...11	5
BZT52C15W	NM	15	5	13.8...15.6	30	200	1	0.1	10.5	9.2...13	5
BZT52C16W	NN	16	5	15.3...17.1	40	200	1	0.1	11.2	10.4...14	5
BZT52C18W	NP	18	5	16.8...19.1	45	225	1	0.1	12.6	12.4...16	5
BZT52C20W	NR	20	5	18.8...21.2	55	225	1	0.1	14	14.4...18	5
BZT52C22W	NX	22	5	20.8...23.3	55	250	1	0.1	15.4	16.4...20	5
BZT52C24W	NY	24	5	22.8...25.6	70	250	1	0.1	16.8	18.4...22	5
BZT52C27W	NZ	27	2	25.1...28.9	80	300	0.5	0.1	18.9	21.4...25.3	2
BZT52C30W	PA	30	2	28...32	80	300	0.5	0.1	21	24.4...29.4	2
BZT52C33W	PB	33	2	31...35	80	325	0.5	0.1	23.1	27.4...33.4	2
BZT52C36W	PC	36	2	34...38	90	350	0.5	0.1	25.2	30.4...37.4	2
BZT52C39W	PD	39	2	37...41	130	350	0.5	0.1	27.3	33.4...41.2	2

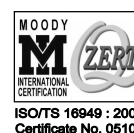
¹⁾ V_Z is tested with pulses (20 ms).

²⁾ Z_Z is measured at I_Z by given a very small A.C. current signal.



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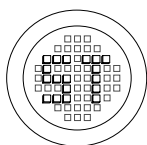
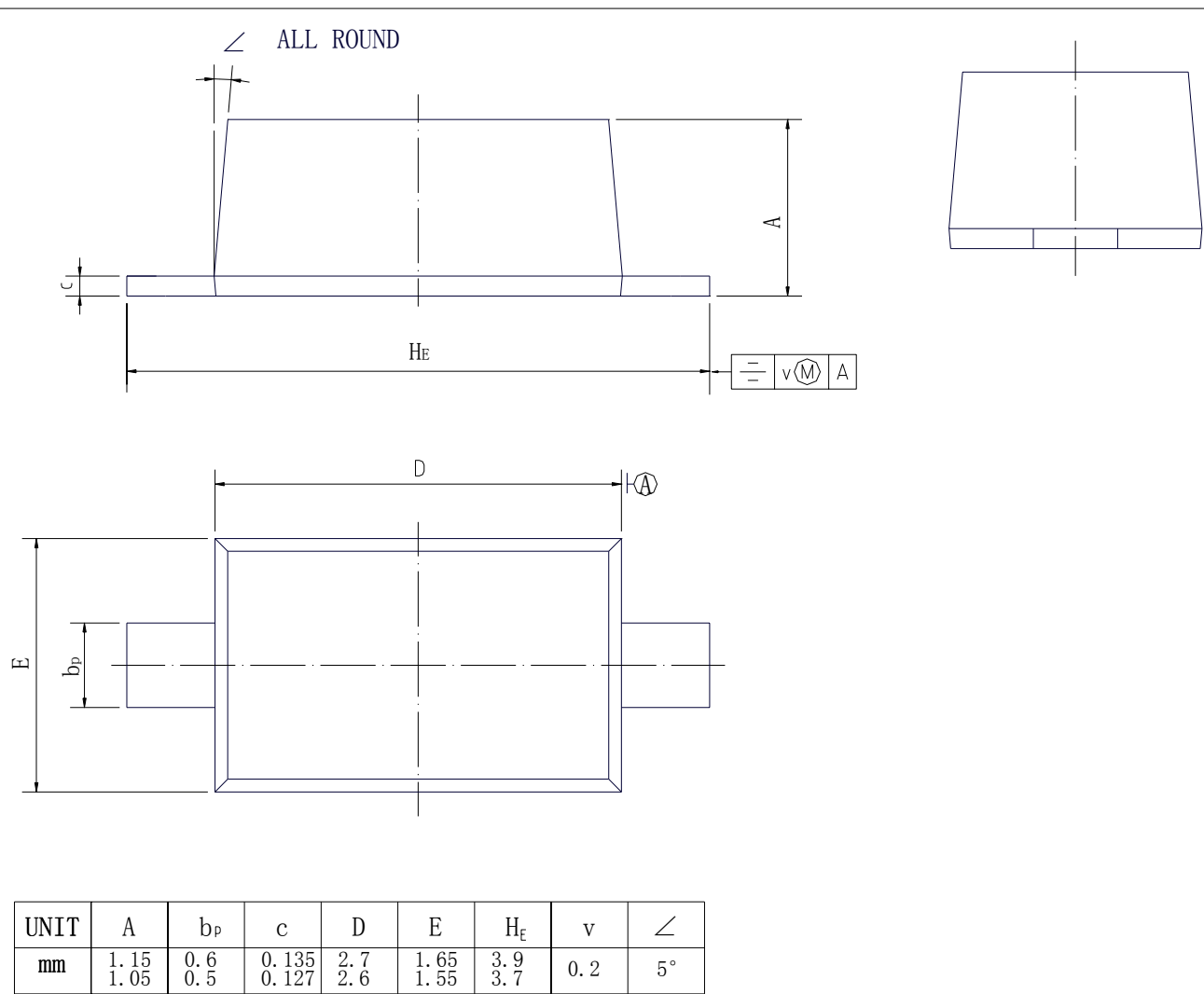
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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



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ISO/TS 16949 : 2002
Certificate No. 05103

ISO 14001:2004
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