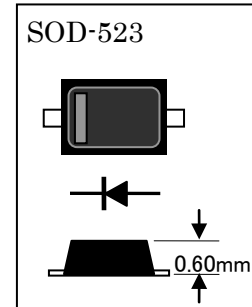


# BZT52CxxT

- ◇ Constant Voltage control
  - ◇ Wide Voltage Range Selection 2.4V to 75V
  - ◇ **SOD523 Thin** SMD package
  - ◇ RoHS compliant / Green EMC
  - ◇ Matte Tin (Sn) Lead finish
  - ◇ Cathode Band / Device marking
- Refer to table list



## Maximum Ratings (Ta = 25 °C)

※Mark: refer to Device Marking

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	150	mW
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-55 to +125	°C
$I_{ZM}$	Maximum Regulator Current	$P_D/V_Z$	mA

## Electrical Characteristics (Ta = 25 °C)

Type Number	Device Marking	$V_Z$ (V) <sup>*1</sup>			$I_{ZT}$ mA	$Z_{ZT}@I_{ZT}$ $\Omega$	$Z_{ZK}@I_{ZK}$ $\Omega$	$I_{ZK}$ (mA)	$I_R$ ( $\mu$ A)	$V_R$ (V)
		Nom(V)	Min(V)	Max(V)						
BZT52C2V4T	Z11	2.4	2.20	2.60	5	100	600	1.0	50	1.0
BZT52C2V7T	Z12	2.7	2.5	2.9	5	100	600	1.0	20	1.0
BZT52C3V0T	Z13	3.0	2.8	3.2	5	95	600	1.0	10	1.0
BZT52C3V3T	Z14	3.3	3.1	3.5	5	95	600	1.0	5	1.0
BZT52C3V6T	Z15	3.6	3.4	3.8	5	90	600	1.0	5	1.0
BZT52C3V9T	Z16	3.9	3.7	4.1	5	90	600	1.0	3	1.0
BZT52C4V3T	Z17	4.3	4.0	4.6	5	90	600	1.0	3	1.0
BZT52C4V7T	Z1	4.7	4.4	5.0	5	80	500	1.0	3	2.0
BZT52C5V1T	Z2	5.1	4.8	5.4	5	60	480	1.0	2	2.0
BZT52C5V6T	Z3	5.6	5.2	6.0	5	40	400	1.0	1	2.0
BZT52C6V2T	Z4	6.2	5.8	6.6	5	10	150	1.0	3	4.0

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# BZT52CxxT

## Electrical Characteristics (Ta = 25 °C)

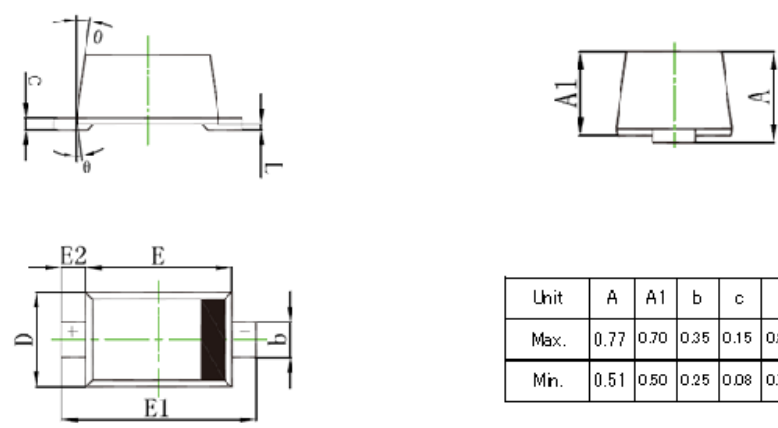
Type Number	Device Marking	Vz (V) *1			I <sub>ZT</sub>	Z <sub>ZT</sub> @I <sub>ZT</sub>	Z <sub>ZK</sub> @I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	V <sub>R</sub>
		Nom(V)	Min(V)	Max(V)	mA	Ω		(mA)	(uA)	(V)
BZT52C6V8T	Z5	6.8	6.4	7.2	5	15	80	1.0	2	4.0
BZT52C7V5T	Z6	7.5	7.0	7.9	5	15	80	1.0	1	5.0
BZT52C8V2T	Z7	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0
BZT52C9V1T	Z8	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0
BZT52C10T	Z9	10.0	9.4	10.6	5	20	150	1.0	0.2	7.0
BZT52C11T	Y1	11.0	10.4	11.6	5	20	150	1.0	0.1	8.0
BZT52C12T	Y2	12.0	11.40	12.7	5	25	150	1.0	0.1	8.0
BZT52C13T	Y3	13.0	12.40	14.10	5	30	170	1.0	0.1	8.0
BZT52C15T	Y4	15.0	13.8	15.6	5	30	200	1.0	0.1	10.5
BZT52C16T	Y5	16.0	15.3	17.1	5	40	200	1.0	0.1	11.2
BZT52C18T	Y6	18.0	16.8	19.1	5	45	225	1.0	0.1	12.6
BZT52C20T	Y7	20.0	18.8	21.2	5	55	225	1.0	0.1	14.0
BZT52C22T	Y8	22.0	20.8	23.3	5	55	250	1.0	0.1	15.4
BZT52C24T	Y9	24.0	22.80	25.6	5	70	250	1.0	0.1	16.8
BZT52C27T	Y10	27.0	25.1	28.9	2	80	300	0.5	0.1	18.9
BZT52C30T	Y11	30.0	28.0	32.0	2	80	300	0.5	0.1	21.0
BZT52C33T	Y12	33.0	31.0	35.0	2	80	325	0.5	0.1	23.1
BZT52C36T	Y13	36.0	34.0	38.0	2	90	350	0.5	0.1	25.2
BZT52C39T	Y14	39.0	37.0	41.0	2	130	350	0.5	0.1	27.3
BZT52C43T	Y15	43.0	40.0	46.0	2	100	700	1	0.1	32
BZT52C47T	V1	47.0	44.65	49.35	2	170	1000	0.25	0.1	36
BZT52C51T	V2	51	48.45	53.55	2	180	1300	0.25	0.1	39
BZT52C56T	V3	56	53.20	58.80	2	200	1400	0.25	0.1	43
BZT52C62T	V4	62	58.90	65.10	2	225	1400	0.25	0.1	47
BZT52C68T	V5	68	64.60	71.40	2	240	1600	0.25	0.1	52
BZT52C75T	V6	75	71.25	78.75	2	265	1700	0.25	0.1	56

\*1 Pulse width = 10 ms

# BZT52CxxT

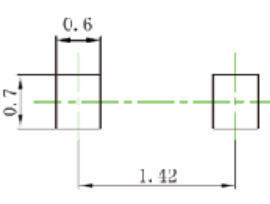
## Package Dimensions

Package outline : SOD-523



Unit	A	A1	b	c	D	E	E1	E2	L	$\theta$
Max.	0.77	0.70	0.25	0.15	0.85	1.20	1.70	0.20	0.07	7°
Min.	0.51	0.50	0.25	0.08	0.75	1.10	1.50	REF.	0.01	REF.

SOD523Package Outline



Lead Pattern Recommendation

Note:

1. Halogen free,EMC
2. Pb free solder
3. Lead thickness includes solder plating
4. Lead frame: Cu
5. Other Tolerance:  $\pm 0.05$
6. Dimensions are exdusive of Burrs,Mold Flash and Tie Bar extrusions
7. Unit: mm

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