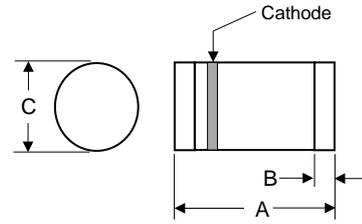


Features

- * Low voltage stabilizers or voltage references
- * Total power dissipation: max. 500 mW
- * Two tolerance series: $\pm 2\%$ and approx. $\pm 5\%$



RoHS
COMPLIANT



LL-34				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.134	0.142	3.40	3.60
B	0.008	0.016	0.20	0.40
C	0.055	0.059	1.40	1.50

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	- 65 to + 200	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 200	$^\circ\text{C}$

Note:1) Valid provided that electrodes are kept at ambient temperature.

Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	0.3 ¹⁾	K/mW
Forward Voltage at $I_F = 10 \text{ mA}$	V_F	0.9	V

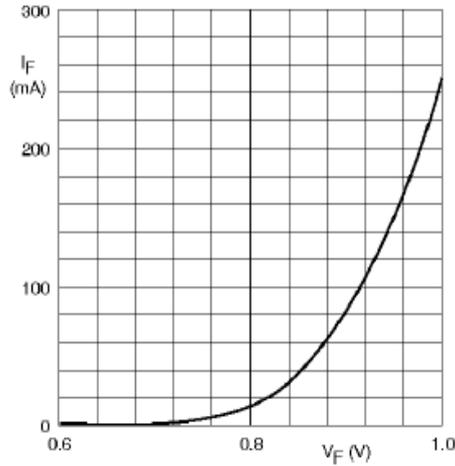
Note:1) Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics (T_A=25°C unless otherwise noted)

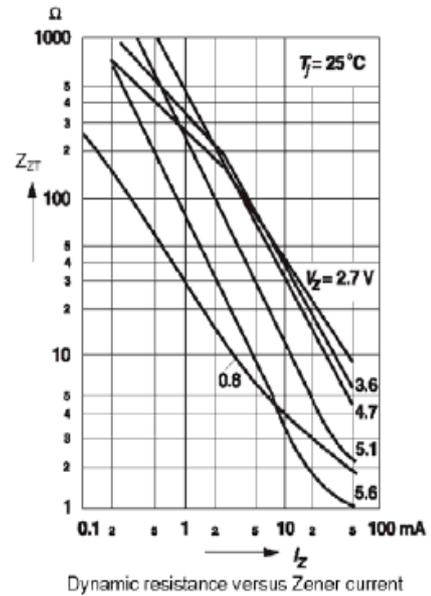
BZV55B... or BZV55C...	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Current	
	V _{ZT} (V)		I _{ZT} (mA)	Z _{ZT} at I _{ZT}	Z _{ZK} at I _{ZK}	at	I _R	at V _R
	BZV55B (Tol. ± 2%)	BZV55C (Tol. ± 5%)		Max. (Ω)	Max. (Ω)		mA	
2V4	2.35...2.45	2.2...2.6	5	100	600	1	50	1
2V7	2.65...2.75	2.5...2.9	5	100	600	1	20	1
3V0	2.94...3.06	2.8...3.2	5	95	600	1	10	1
3V3	3.23...3.37	3.1...3.5	5	95	600	1	5	1
3V6	3.53...3.67	3.4...3.8	5	90	600	1	5	1
3V9	3.82...3.98	3.7...4.1	5	90	600	1	3	1
4V3	4.21...4.39	4...4.6	5	90	600	1	3	1
4V7	4.61...4.79	4.4...5	5	80	500	1	3	2
5V1	5...5.2	4.8...5.5	5	60	480	1	2	2
5V6	5.49...5.71	5.2...6	5	40	400	1	1	2
6V2	6.08...6.32	5.8...6.6	5	10	150	1	3	4
6V8	6.66...6.94	6.4...7.2	5	15	80	1	2	4
7V5	7.35...7.65	7...7.9	5	15	80	1	1	5
8V2	8.04...8.36	7.7...8.7	5	15	80	1	0.7	5
9V1	8.92...9.28	8.5...9.6	5	15	100	1	0.5	6
10	9.8...10.2	9.4...10.6	5	20	150	1	0.2	7
11	10.8...11.2	10.4...11.6	5	20	150	1	0.1	8
12	11.8...12.2	11.4...12.7	5	25	150	1	0.1	8
13	12.7...13.3	12.4...14.1	5	30	170	1	0.1	8
15	14.7...15.3	13.8...15.6	5	30	200	1	0.05	10
16	15.7...16.3	15.3...17.1	5	40	200	1	0.05	11
18	17.6...18.4	16.8...19.1	5	45	225	1	0.05	13
20	19.6...20.4	18.8...21.2	5	55	225	1	0.05	14
22	21.6...22.4	20.8...23.3	5	55	250	1	0.05	15
24	23.5...24.5	22.8...25.6	5	70	250	1	0.05	17
27	26.5...27.5	25.1...28.9	2	80	300	0.5	0.05	19
30	29.4...30.6	28...32	2	80	300	0.5	0.05	21
33	32.3...33.7	31...35	2	80	325	0.5	0.05	23
36	35.3...36.7	34...38	2	90	350	0.5	0.05	25
39	38.2...39.8	37...41	2	130	350	0.5	0.05	27
43	42.1...43.9	40...46	2	150	375	0.5	0.05	30
47	46.1...47.9	44...50	2	170	375	0.5	0.05	33
51	50...52	48...54	2	180	400	0.5	0.05	36
56	54.9...57.1	52...60	2	200	425	0.5	0.05	39
62	60.8...63.2	58...66	2	215	450	0.5	0.05	43
68	66.6...69.4	64...72	2	240	475	0.5	0.05	48
75	73.5...76.5	70...79	2	255	500	0.5	0.05	53

Note: 1) Tested with pulses t_p = 20 ms.

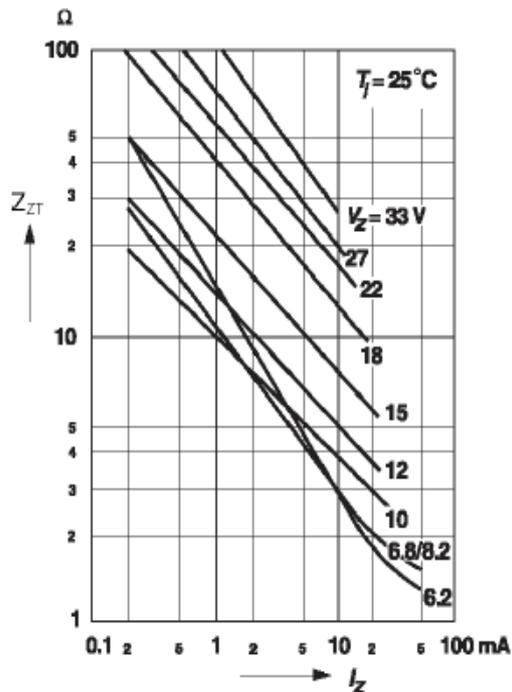
Ratings and Characteristic Curves



Typical forward current as a function of forward voltage



Dynamic resistance versus Zener current



Dynamic resistance versus Zener current



BZV55 Series

Silicon Planar Zener Diodes

Ordering Information

Part No.	Package	Packing Code	Packing
BZV55 Series	LL-34	R25	2500pcs/Reel

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