Kingtronics® Kt®

BZV55C-SERIES

SILICON PLANAR ZENER DIODES

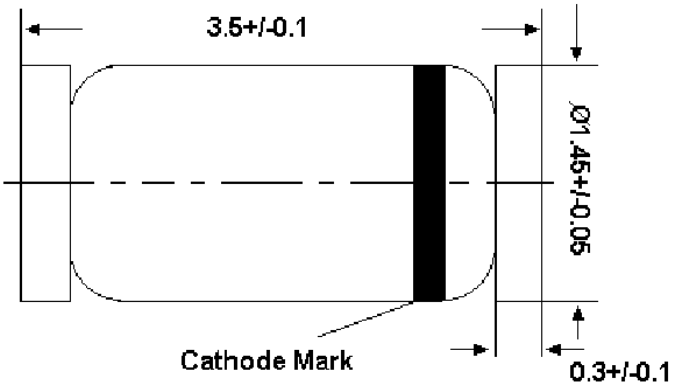
FEATURES

Total power dissipation: max. 500 mW

Two tolerance series: ± 2% and approx. ± 5%

Standard tolerance: approx. ±5% (refer to below "zener voltage range") ; ±2% tolerance available on request.

LL-34



Glass Case MiniMELF

Dimensions in mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings Ta=25℃

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	Ptot	500[1)]	mW
Junction and Storage Temperature Range	Tj, Tstg	-65 to + 200	℃

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

Characteristics at Ta=25℃

PARAMETER	SYMBOL	MAX	UNIT
Thermal Resistance Junction to Ambient Air	RthA	0.3[1)]	K/mW
Forward Voltage at IF = 100 mA	VF	0.9	V

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

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Characteristics at T_j=25℃

BZV55C…	Zener Voltage Range 1)		Dynamic Resistance			Reverse Current	
	V ZT (V)	IZT	Z_{ZT} at I_{ZT}	ZZk	at IZK	I_R	at V_R
		(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max. (μA)	(V)
2V4	2.2…2.6	5	100	600	1	50	1
2V7	2.5…2.9	5	100	600	1	20	1
3V0	2.8…3.2	5	95	600	1	10	1
3V3	3.1…3.5	5	95	600	1	5	1
3V6	3.4…3.8	5	90	600	1	5	1
3V9	3.7…4.1	5	90	600	1	3	1
4V3	4…4.6	5	90	600	1	3	1
4V7	4.4…5	5	80	500	1	3	2
5V1	4.8…5.5	5	60	480	1	2	2
5V6	5.2…6	5	40	400	1	1	2
6V2	5.8…6.6	5	10	150	1	3	4
6V8	6.4…7.2	5	15	80	1	2	4
7V5	7…7.9	5	15	80	1	1	5
8V2	7.7…8.7	5	15	80	1	0.7	5
9V1	8.5…9.6	5	15	100	1	0.5	6
10	9.4…10.6	5	20	150	1	0.2	7
11	10.4…11.6	5	20	150	1	0.1	8
12	11.4…12.7	5	25	150	1	0.1	8
13	12.4…14.1	5	30	170	1	0.1	8
15	13.8…15.6	5	30	200	1	0.05	10
16	15.3…17.1	5	40	200	1	0.05	11
18	16.8…19.1	5	45	225	1	0.05	13
20	18.8…21.2	5	55	225	1	0.05	14
22	20.8…23.3	5	55	250	1	0.05	15
24	22.8…25.6	5	70	250	1	0.05	17
27	25.1…28.9	2	80	300	0.5	0.05	19
30	28…32	2	80	300	0.5	0.05	21
33	31…35	2	80	325	0.5	0.05	23
36	34…38	2	90	350	0.5	0.05	25
39	37…41	2	130	350	0.5	0.05	27
43	40…46	2	150	375	0.5	0.05	30
47	44…50	2	170	375	0.5	0.05	33
51	48…54	2	180	400	0.5	0.05	36
56	52…60	2	200	425	0.5	0.05	39
62	58…66	2	215	450	0.5	0.05	43
68	64…72	2	240	475	0.5	0.05	48
75	70…79	2	255	500	0.5	0.05	53

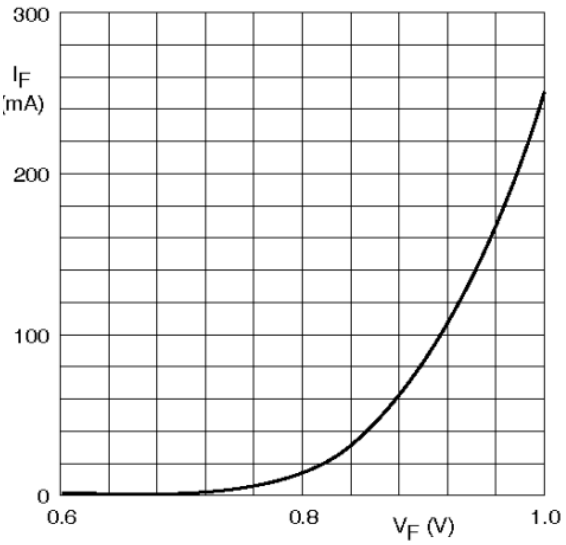
1) Tested with pulses t_p = 20 ms.

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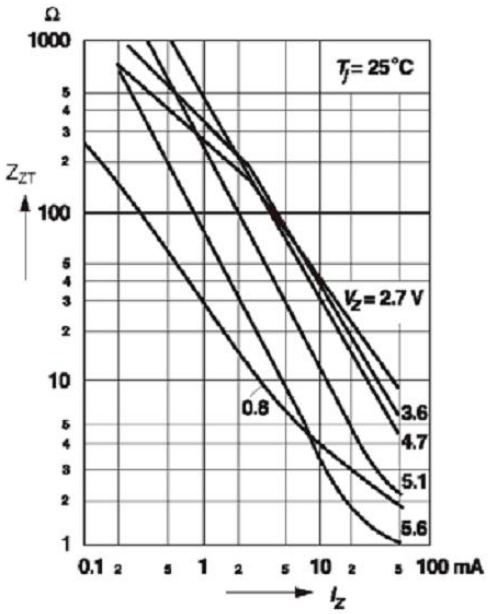
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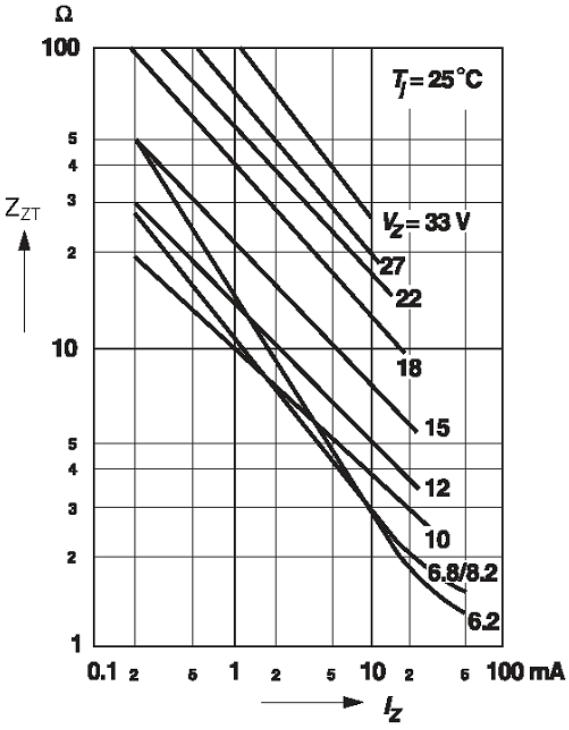
RATINGS AND CHARACTERISTIC CURVES BZV55



Typical forward current as a function of forward voltage



Dynamic resistance versus Zener current



Dynamic resistance versus Zener current

Note: Specifications are subject to change without notice.