FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

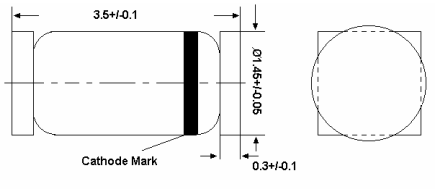
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 852-2790 0314 FAX: 852-2790 0206

BZT2V0...BZT200

SILICON PLANAR ZENER DIODES

in QuadroMELF case especially for automatic insertion. The Zener voltages are graded according to the international E24 standard.
Other tolerance, non standard and higher Zener voltages upon request.

LS-34



QuadroMELF
Dimensions in mm

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	500 [1)]	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_S	- 55 to + 175	°C
[1)] Valid provided that electrodes are kept at ambient temperature.			

Characteristics at T_{amb} = 25 °C

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	0.3 [1)]	K/mW
[1)] Valid provided that electrodes are kept at ambient temperature.			

Dated : 12/01/2007

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BZT2V0...BZT200

Type	Zener Voltage Range [1]			Dynamic Resistance			Reverse Leakage Current			Temp Coefficient of Zener Voltage
	V_{Znom} V	I_{ZT} for V_{ZT} [2] mA	V	r_{ZJT} Ω	r_{ZJK} Ω	at I_{ZK} mA	T_a = 25 °C µA	T_a = 125 °C µA	I_R at V_R V	TKvz %/K
BZT2V0	2.0	5	1.8...2.15	< 85	< 600	1	< 100	< 200	1	-0.09...-0.06
BZT2V2	2.2	5	2.08...2.33	< 85	< 600	1	< 75	< 160	1	-0.09...-0.06
BZT2V4	2.4	5	2.28...2.56	< 85	< 600	1	< 50	< 100	1	-0.09...-0.06
BZT2V7	2.7	5	2.5...2.9	< 85	< 600	1	< 10	< 50	1	-0.09...-0.06
BZT3V0	3.0	5	2.8...3.2	< 85	< 600	1	< 4	< 40	1	-0.08...-0.05
BZT3V3	3.3	5	3.1...3.5	< 85	< 600	1	< 2	< 40	1	-0.08...-0.05
BZT3V6	3.6	5	3.4...3.8	< 85	< 600	1	< 2	< 40	1	-0.08...-0.05
BZT3V9	3.9	5	3.7...4.1	< 85	< 600	1	< 2	< 40	1	-0.08...-0.05
BZT4V3	4.3	5	4...4.6	< 75	< 600	1	< 1	< 20	1	-0.06...-0.03
BZT4V7	4.7	5	4.4...5	< 60	< 600	1	< 0.5	< 10	1	-0.05...+0.02
BZT5V1	5.1	5	4.8...5.4	< 35	< 550	1	< 0.1	< 2	1	-0.02...+0.02
BZT5V6	5.6	5	5.2...6	< 25	< 450	1	< 0.1	< 2	1	-0.05...+0.05
BZT6V2	6.2	5	5.8...6.6	< 10	< 200	1	< 0.1	< 2	2	0.03...0.06
BZT6V8	6.8	5	6.4...7.2	< 8	< 150	1	< 0.1	< 2	3	0.03...0.07
BZT7V5	7.5	5	7...7.9	< 7	< 50	1	< 0.1	< 2	5	0.03...0.07
BZT8V2	8.2	5	7.7...8.7	< 7	< 50	1	< 0.1	< 2	6.2	0.03...0.08
BZT9V1	9.1	5	8.5...9.6	< 10	< 50	1	< 0.1	< 2	6.8	0.03...0.09
BZT10	10	5	9.4...10.6	< 15	< 70	1	< 0.1	< 2	7.5	0.03...0.10
BZT11	11	5	10.4...11.6	< 20	< 70	1	< 0.1	< 2	8.2	0.03...0.11
BZT12	12	5	11.4...12.7	< 20	< 90	1	< 0.1	< 2	9.1	0.03...0.11
BZT13	13	5	12.4...14.1	< 26	< 110	1	< 0.1	< 2	10	0.03...0.11
BZT15	15	5	13.8...15.6	< 30	< 110	1	< 0.1	< 2	11	0.03...0.11
BZT16	16	5	15.3...17.1	< 40	< 170	1	< 0.1	< 2	12	0.03...0.11
BZT18	18	5	16.8...19.1	< 50	< 170	1	< 0.1	< 2	13	0.03...0.11
BZT20	20	5	18.8...21.2	< 55	< 220	1	< 0.1	< 2	15	0.04...0.11
BZT22	22	5	20.8...23.3	< 55	< 220	1	< 0.1	< 2	16	0.04...0.12
BZT24	24	5	22.8...25.6	< 80	< 220	1	< 0.1	< 2	18	0.04...0.12
BZT27	27	5	25.1...28.9	< 80	< 220	1	< 0.1	< 2	20	0.04...0.12
BZT30	30	5	28...32	< 80	< 220	1	< 0.1	< 2	22	0.04...0.12
BZT33	33	5	31...35	< 80	< 220	1	< 0.1	< 2	24	0.04...0.12
BZT36	36	5	34...38	< 80	< 220	1	< 0.1	< 2	27	0.04...0.12
BZT39	39	2.5	37...41	< 90	< 500	0.5	< 0.1	< 5	30	0.04...0.12
BZT43	43	2.5	40...46	< 90	< 500	0.5	< 0.1	< 5	33	0.04...0.12
BZT47	47	2.5	44...50	< 110	< 600	0.5	< 0.1	< 5	38	0.04...0.12
BZT51	51	2.5	48...54	< 125	< 700	0.5	< 0.1	< 10	39	0.04...0.12
BZT56	56	2.5	52...60	< 135	< 700	0.5	< 0.1	< 10	43	0.04...0.12
BZT62	62	2.5	58...66	< 150	< 1000	0.5	< 0.1	< 10	47	0.04...0.12
BZT68	68	2.5	64...72	< 200	< 1000	0.5	< 0.1	< 10	51	0.04...0.12
BZT75	75	2.5	70...79	< 250	< 1000	0.5	< 0.1	< 10	56	0.04...0.12
BZT82	82	2.5	77...87	< 300	< 1500	0.25	< 0.1	< 10	62	0.05...0.12
BZT91	91	1	85...96	< 450	< 2000	0.1	< 0.1	< 10	68	0.05...0.12
BZT100	100	1	94...106	< 450	< 5000	0.1	< 0.1	< 10	75	0.05...0.12
BZT110	110	1	104...116	< 600	< 5000	0.1	< 0.1	< 10	82	0.05...0.12
BZT120	120	1	114...127	< 800	< 5500	0.1	< 0.1	< 10	91	0.05...0.12
BZT130	130	1	124...141	< 950	< 6000	0.1	< 0.1	< 10	100	0.05...0.12
BZT150	150	1	138...156	< 1250	< 6500	0.1	< 0.1	< 10	110	0.0.5...0.12
BZT160	160	1	153...171	< 1400	< 7000	0.1	< 0.1	< 10	120	0.05...0.12
BZT180	180	1	168...191	< 1700	< 8500	0.1	< 0.1	< 10	130	0.05...0.12
BZT200	200	1	188...212	< 2000	< 10000	0.1	< 0.1	< 10	150	0.05...0.12

[1] Tested with pulses t_p = 20 ms.

[2] Valid provided that electrodes are kept at ambient temperature.

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Dated : 12/01/2007