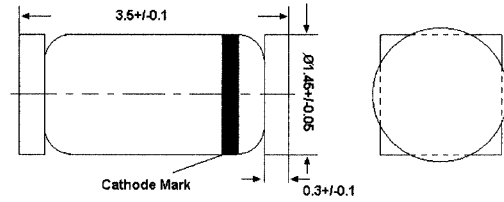


# BZT2.0 ... BZT200

## Silicon Planar Zener Diodes

in Mini Melf 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. These diodes are delivered taped. Details see "Taping".



Glass case MiniMELF

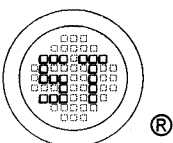
Weight approx. 0.05g  
Dimensions in mm

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

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation at $T_{amb}=25^\circ\text{C}$	$P_{tot}$	500 <sup>1)</sup>	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_s$	-55 to +175	$^\circ\text{C}$
1) Valid provided that electrodes are kept at ambient temperature.			

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

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{thA}$	-	-	0.3 <sup>1)</sup>	K/mW
1) Valid provided that electrodes are kept at ambient temperature.					



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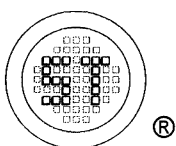


# BZT2.0 ... BZT200

Type	Zener Voltage Range <sup>1)</sup>			Dynamic Resistance			Reverse Leakage Current			Temp Coefficient of Zener TKvz %/K
	Vzno mV	I <sub>ZT</sub> for V <sub>ZT</sub> <sup>2)</sup> mA	V	r <sub>ZJT</sub> Ω	r <sub>ZJK</sub> at I <sub>ZK</sub> Ω	I <sub>ZK</sub> mA	T <sub>a</sub> =25 °C uA	T <sub>a</sub> =12 5°C uA	I <sub>R</sub> at V <sub>R</sub> V	
BZT2.0	2.0	5	1.9...2.1	<85	<600	1	<100	<200	1	-0.09...-0.06
BZT2.2	2.2	5	2.08...2.33	<85	<600	1	<75	<160	1	-0.09...-0.06
BZT2.4	2.4	5	2.28...2.56	<85	<600	1	<50	<100	1	-0.09...-0.06
BZT2.7	2.7	5	2.5...2.9	<85	<600	1	<10	<50	1	-0.09...-0.06
BZT3.0	3.0	5	2.8...3.2	<85	<600	1	<4	<40	1	-0.08...-0.05
BZT3.3	3.3	5	3.1...3.5	<85	<600	1	<2	<40	1	-0.08...-0.05
BZT3.6	3.6	5	3.4...3.8	<85	<600	1	<2	<40	1	-0.08...-0.05
BZT3.9	3.9	5	3.7...4.1	<85	<600	1	<2	<40	1	-0.08...-0.05
BZT4.3	4.3	5	4.0...4.6	<75	<600	1	<1	<20	1	-0.06...-0.03
BZT4.7	4.7	5	4.4...5.0	<60	<600	1	<0.5	<10	1	-0.05...+0.02
BZT5.1	5.1	5	4.8...5.4	<35	<550	1	<0.1	<2	1	-0.02...+0.02
BZT5.6	5.6	5	5.2...6.0	<25	<450	1	<0.1	<2	1	-0.05...+0.05
BZT6.2	6.2	5	5.8...6.6	<10	<200	1	<0.1	<2	2	0.03...0.06
BZT6.8	6.8	5	6.4...7.2	<8	<150	1	<0.1	<2	3	0.03...0.07
BZT7.5	7.5	5	7.0...7.9	<7	<50	1	<0.1	<2	5	0.03...0.07
BZT8.2	8.2	5	7.7...8.7	<7	<50	1	<0.1	<2	6.2	0.03...0.08
BZT9.1	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	11	<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	0.05...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<sub>p</sub> = 20 ms.

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



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Dated : 20/03/2002