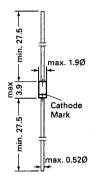
BZX 55... SILICON PLANAR ZENER DIODES

Silicon Planar Zener Diodes

The Zener voltages are graded according to the international E 24 standard. Other voltage tolerances and higher Zener voltages on request.



Glass case JEDEC DO-35

Dimensions in mm

Absolute Maximum Ratings (T_a= 25 °C)

	Symbol	Value	Unit	
Zener Current see Table " Characteristics "				
Power Dissipation at T _{amb} = 25 °C	P _{tot}	500 ¹⁾	mW	
Junction Temperature	T _i	175	°C	
Storage Temperature Range	T _{stg}	-55 to + 175	°C	

Characteristics at T_{amb} = 25 °C

	Symbol	Min.	Тур	Max	Unit
Thermal Resistance Junction to Ambient Air	R _{thA}	-	-	0.3 ¹⁾	K/mW
Forward Voltage at I _F = 100 mA	V _F	-	-	1	V





SEMTECH ELECTRONICS LTD. (wholly owned subsidiary of HONEY TECHNOLOGY LTD.)

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Туре		Zener Voltage range ¹⁾ Dynamic resistance		stance	Reverse leakage current			Temp. coefficient of Zener Voltage		
	V _{Znom}	V _{znom} I _{zT} for V _{zT²}		r _{zjT}	r _{zjT} r _{zjK} at I _{ZK}		T _a =25°C T _a =125°C		I _R at V _R	ΤΚ _{vz}
	V	mA	V V	Ω	Ω	mA	μA	μA	V	%/K
BZX 55/C 0 V 8 ³⁾	0.8	5	0.73 0.83	<8	<50	1				-0.260.23
BZX 55/C 2 V 0	2.0	5	1.9 2.1	<85	<600	1	<100	<200	1	-0.090.06
BZX 55/C 2 V 2	2.2	5	2.08 2.33	<85	<600	1	<75	<160	1	-0.090.06
BZX 55/C 2 V 4	2.4	5	2.28 2.56	<85	<600	1	<50	<100	1	-0.090.06
BZX 55/C 2 V 7	2.7	5	2.5 2.9	<85	<600	1	<10	<50	1	-0.090.06
BZX 55/C 3 V 0	3.0	5	2.8 3.2	<85	<600	1	<4	<40	1	-0.080.05
BZX 55/C 3 V 3	3.3	5	3.1 3.5	<85	<600	1	<2	<40	1	-0.080.05
BZX 55/C 3 V 6	3.6	5	3.4 3.8	<85	<600	1	<2	<40	1	-0.080.05
BZX 55/C 3 V 9	3.9	5	3.7 4.1	<85	<600	1	<2	<40	1	-0.080.05
BZX 55/C 4 V 3	4.3	5	4.0 4.6	<75	<600	1	<1	<20	1	-0.060.03
BZX 55/C 4 V 7	4.7	5	4.4 5.0	<60	<600	1	<0.5	<10	1	-0.05 +0.02
BZX 55/C 5 V 1	5.1	5	4.8 5.4	<35	<550	1	<0.1	<2	1	-0.02 +0.02
BZX 55/C 5 V 6	5.6	5	5.2 6.0	<25	<450	1	<0.1	<2	1	-0.05 +0.05
BZX 55/C 6 V 2	6.2	5	5.8 6.6	<10	<200	1	<0.1	<2	2	0.03 0.06
BZX 55/C 6 V 8	6.8	5	6.4 7.2	<8	<150	1	<0.1	<2	3	0.03 0.07
BZX 55/C 7 V 5	7.5	5	7.0 7.9	<7	<50	1	<0.1	<2.	5	0.03 0.07
BZX 55/C 8 V 2	8.2	5	7.7 8.7	<7	<50	1	<0.1	<2	6.2	0.03 0.08
BZX 55/C 9 V 1	9.1	5	8.5 9.6	<10	<50	1	<0.1	<2	6.8	0.03 0.09
BZX 55/C 10	10	5	9.4 10.6	<15	<70	1	<0.1	<2	7.5	0.03 0.1
BZX 55/C 11	11	5	10.4 11.6	<20	<70	1	<0.1	<2	8.2	0.03 0.11
BZX 55/C 12	12	5	11.4 12.7	<20	<90	1	<0.1	<2	9.1	0.03 0.11
BZX 55/C 13	13	5	12.4 14.1	<26	<110	1	<0.1	<2	10	0.03 0.11
BZX 55/C 15	15 16	5	13.8 15.6	<30 <40	<110 <170	1	<0.1	<2	<u>11</u> 12	0.03 0.11
BZX 55/C 16	18	5 5	15.3 17.1 16.8 19.1	<40	<170	1	<0.1 <0.1	<2 <2	13	0.03 0.11
BZX 55/C 18 BZX 55/C 20	20	5	18.8 21.2	<55	<220	1	<0.1	<2	15	0.03 0.11
BZX 55/C 20	20	5	20.8 23.3	<55	<220	1	<0.1	<2	16	0.03 0.11
BZX 55/C 22	24	5	22.8 25.6	<80	<220	1	<0.1	<2	18	0.04 0.12
BZX 55/C 27	27	5	25.1 28.9	<80	<220	1	<0.1	<2	20	0.04 0.12
BZX 55/C 30	30	5	28 32	<80	<220	1	<0.1	<2	22	0.04 0.12
BZX 55/C 33	33	5	31 35	<80	<220	1	<0.1	<2	24	0.04 0.12
BZX 55/C 36	36	5	34 38	<80	<220	1	<0.1	<2	27	0.04 0.12
BZX 55/C 39	39	2.5	37 41	<90	<500	0.5	<0.1	<5	30	0.04 0.12
BZX 55/C 43	43	2.5	40 46	<90	<500	0.5	<0.1	<5	33	0.04 0.12
BZX 55/C 47	47	2.5	44 50	<110	<600	0.5	<0.1	<5	36	0.04 0.12
BZX 55/C 51	51	2.5	48 54	<125	<700	0.5	<0.1	<10	39	0.04 0.12
BZX 55/C 56	56	2.5	52 60	<135	<700	0.5	<0.1	<10	43	0.04 0.12
BZX 55/C 62	62	2.5	58 66	<150	<1000	0.5	<0.1	<10	47	0.04 0.12
BZX 55/C 68	68	2.5	64 72	<200	<1000	0.5	<0.1	<10	51	0.04 0.12
BZX 55/C 75	75	2.5	70 79	<250	<1000	0.5	<0.1	<10	56	0.04 0.12
BZX 55/C 82	82	2.5	77 87	<300	<1500	0.25	<0.1	<10	62	0.05 0.12
BZX 55/C 91	91	1	85 96	<450	<2000	0.1	<0.1	<10	68	0.05 0.12
BZX 55/C 100	100	1	94 106	<450	<5000	0.1	<0.1	<10	75	0.05 0.12
BZX 55/C 110	110	1	104 116	<600	<5000	0.1	<0.1	<10	82	0.05 0.12
BZX 55/C 120	120	1	114 127	<800	<5500	0.1	<0.1	<10	91	0.05 0.12
BZX 55/C 130	130	1	124 141	<950	<6000	0.1	<0.1	<10	100	0.05 0.12
BZX 55/C 150	150	1	138 156	<1250	<6500	0.1	<0.1	<10	110	0.05 0.12
BZX 55/C 160	160	1	153 171	<1400	<7000	0.1	<0.1	<10	120	0.05 0.12
BZX 55/C 180	180	1	168 191	<1700	<8500	0.1	<0.1	<10	130	0.05 0.12
BZX 55/C 200	200	1	188 212	<2000	<10000	0.1	<0.1	<10	150	0.05 0.12

¹⁾ Tested with pulses tp = 20 ms.

²⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

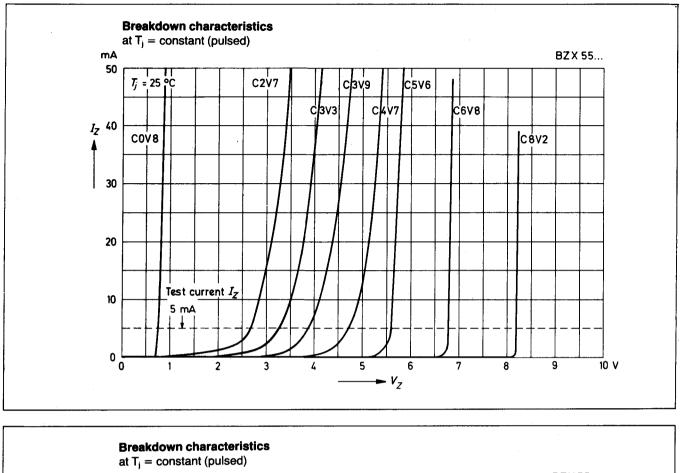
³⁾ The BZX55-C0V8 is a silicon diode with operation in forward direction. Hence, the index of all parameters should be "F" instead of "Z". Connect the cathode lead to the negative pole.

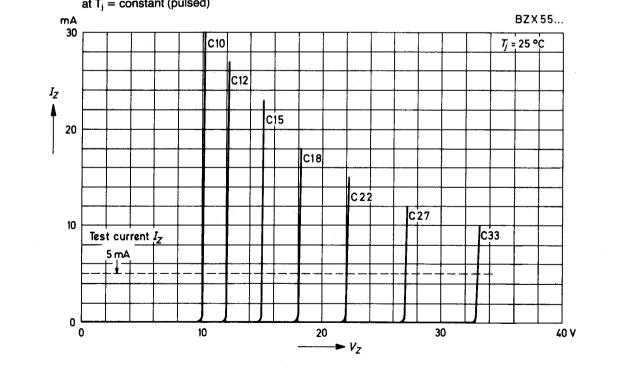
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