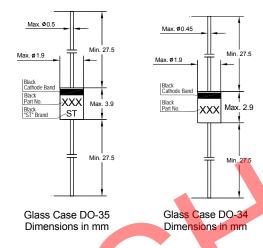
Silicon Planar Zener Diodes

The Zener voltages are graded according to the international E24 standard. Other tolerances and higher Zener voltages are upon request.



Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol Value Un	it						
Power Dissipation	P _{tot} 500 ¹⁾ mV	V						
Junction Temperature	T _j 175 °C	;						
Storage Temperature Range	T _{stg} - 55 to + 175 °C	,						
1) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.								

Characteristics at Ta = 25°C

Parameter	Symbol	Max.	Unit					
Thermal Resistance Junction to Ambient Air	R _{thA}	0.3 1)	K/mW					
Forward Voltage at IF = 100 mA	V _F	1	V					
1) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.								











Dated: 02/09/2013 Rev: 01

	Zener Voltage Range 1)		Dynamic Resistance		Reverse Leakage Current			Temp. Coefficient		
Туре	V _{znom}	V _{ZT}	at I _{ZT}	Z _{ZT}	Z_{ZK}	at I _{zk}	T _a =25°C	T _a =125°C	I _R at V _R	of Zener Voltage
71. *	(V)	(V)	(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max. (µA)	Max. (μA)	(V)	TKvz (%/K)
BZX55C0V8 ²⁾	0.8	0.730.83	5	8	50	1	-	-	-	-0.260.23
BZX55C2V0	2	1.82.15	5	85	600	1	100	200	1	-0.090.06
BZX55C2V2	2.2	2.082.33	5	85	600	1	75	160	1	-0.090.06
BZX55C2V4	2.4	2.282.56	5	85	600	1	50	100	1	-0.090.06
BZX55C2V7	2.7	2.52.9	5	85	600	1	10	50	1	-0.090.06
BZX55C3V0	3	2.83.2	5	85	600	1	4	40	1	-0.080.05
BZX55C3V3	3.3	3.13.5	5	85	600	1	2	40	1	-0.080.05
BZX55C3V6	3.6	3.43.8	5	85	600	1	2	40	1	-0.080.05
BZX55C3V9	3.9	3.74.1	5	85	600	1	2	40	1	-0.080.05
BZX55C4V3	4.3	44.6	5	75	600	1	1	20	1	-0.060.03
BZX55C4V7	4.7	4.45	5	60	600	1	0.5	10	1_	-0.05+0.02
BZX55C5V1	5.1	4.85.4	5	35	550	1	0.1	2	1	-0.02+0.02
BZX55C5V6	5.6	5.26	5	25	450	1	0.1	2	1	-0.05+0.05
BZX55C6V2	6.2	5.86.6	5	10	200	1	0.1	2	2	0.030.06
BZX55C6V8	6.8	6.47.2	5	8	150	1	0.1	2	3	0.030.07
BZX55C7V5	7.5	77.9	5	7	50	1	0.1	2	5	0.030.07
BZX55C8V2	8.2	7.78.7	5	7	50	1	0.1	2	6.2	0.030.08
BZX55C9V1	9.1	8.59.6	5	10	50	1	0.1	2	6.8	0.030.09
BZX55C10	10	9.410.6	5	15	70	1	0.1	2	7.5	0.030.1
BZX55C11	11	10.411.6	5	20	70	1	0.1	2	8.2	0.030.11
BZX55C12	12	11.412.7	5	20	90	1	0.1	2	9.1	0.030.11
BZX55C13	13	12.414.1	5	26	110	1	0.1	2	10	0.030.11
BZX55C15	15	13.815.6	5	30	110	1	0.1	2	11	0.030.11
BZX55C16	16	15.317.1	5	40	170	1	0.1	2	12	0.030.11
BZX55C18	18	16.819.1	5	50	170	1	0.1	2	13	0.030.11
BZX55C20	20	18.821.2	5	55	220	1	0.1	2	15	0.030.11
BZX55C22	22	20.823.3	5	55	220	1	0.1	2	16	0.040.12
BZX55C24	24	22.825.6	5	80	220	1	0.1	2	18	0.040.12
BZX55C27	27	25.128.9	5	80	220	1	0.1	2	20	0.040.12
BZX55C30	30	2832	5	80	220	1	0.1	2	22	0.040.12
BZX55C33	33	3135	5	80	220	1	0.1	2	24	0.040.12
BZX55C36	3 6	3438	5	80	220	1	0.1	2	27	0.040.12
BZX55C39	39	3741	2.5	90	500	0.5	0.1	5	30	0.040.12
BZX55C43	43	4046	2.5	90	500	0.5	0.1	5	33	0.040.12
BZX55C47	47	4450	2.5	110	600	0.5	0.1	5	36	0.040.12
BZX55C51	51	4854	2.5	125	700	0.5	0.1	10	39	0.040.12
BZX55C56	56	5260	2.5	135	700	0.5	0.1	10	43	0.040.12
BZX55C62	62	5866	2.5	150	1000	0.5	0.1	10	47	0.040.12
BZX55C68	68	6472	2.5	200	1000	0.5	0.1	10	51	0.040.12
BZX55C75	75	7079	2.5	250	1000	0.5	0.1	10	56	0.040.12
BZX55C82	82	7787	2.5	300	1500	0.25	0.1	10	62	0.050.12

Tested with pulses t_p = 20 ms.

The BZX55C0V8 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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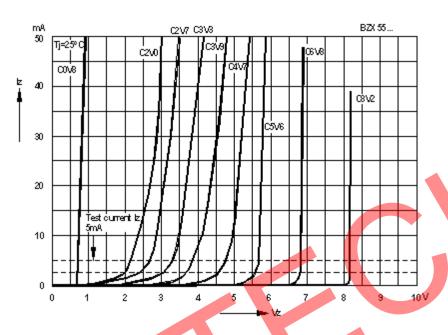








Breakdown characteristics T)=constant(pulsed)



Breakdown characteristics T) = constant (pulsed)

