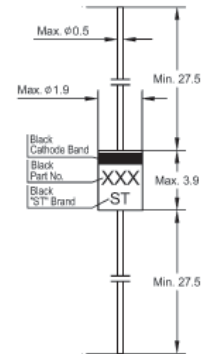


**SILICON PLANAR ZENER DIODES**

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



Glass Case DO-35  
Dimensions in mm

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

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{tot}$	500 <sup>1)</sup>	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 55 to + 175	$^\circ\text{C}$

<sup>1)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

**Characteristics at  $T_a = 25\text{ }^\circ\text{C}$**

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{thA}$	0.3 <sup>1)</sup>	K/mW
Forward Voltage at $I_F = 100\text{ mA}$	$V_F$	1	V

<sup>1)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Type	Zener Voltage Range <sup>1)</sup>			Dynamic Resistance			Reverse Leakage Current	
	V <sub>Znom</sub> V	I <sub>ZT</sub> mA	for V <sub>ZT</sub> V	r <sub>ZJT</sub> Max. (Ω)	r <sub>ZJK</sub> Max. (Ω)	at I <sub>ZK</sub> mA	I <sub>R</sub> Max. (μA)	at V <sub>R</sub> (V)
BZX97C2V4	2.4	5	2.28...2.56	85	600	1	50	1
BZX97C2V7	2.7	5	2.5...2.9	85	600	1	50	1
BZX97C3V0	3	5	2.8...3.2	85	600	1	40	1
BZX97C3V3	3.3	5	3.1...3.5	85	600	1	40	1
BZX97C3V6	3.6	5	3.4...3.8	85	600	1	40	1
BZX97C3V9	3.9	5	3.7...4.1	85	600	1	40	1
BZX97C4V3	4.3	5	4...4.6	75	600	1	20	1
BZX97C4V7	4.7	5	4.4...5	60	600	1	10	1
BZX97C5V1	5.1	5	4.8...5.4	35	550	1	2	1
BZX97C5V6	5.6	5	5.2...6	25	450	1	2	1
BZX97C6V2	6.2	5	5.8...6.6	10	200	1	2	2
BZX97C6V8	6.8	5	6.4...7.2	8	150	1	2	3
BZX97C7V5	7.5	5	7...7.9	7	50	1	2	5
BZX97C8V2	8.2	5	7.7...8.7	7	50	1	2	6
BZX97C9V1	9.1	5	8.5...9.6	10	50	1	2	7
BZX97C10	10	5	9.4...10.6	15	70	1	2	7.5
BZX97C11	11	5	10.4...11.6	20	70	1	2	8.5
BZX97C12	12	5	11.4...12.7	20	90	1	2	9
BZX97C13	13	5	12.4...14.1	26	110	1	2	10
BZX97C15	15	5	13.8...15.6	30	110	1	2	11
BZX97C16	16	5	15.3...17.1	40	170	1	2	12
BZX97C18	18	5	16.8...19.1	50	170	1	2	14
BZX97C20	20	5	18.8...21.2	55	220	1	2	15
BZX97C22	22	5	20.8...23.3	55	220	1	2	17
BZX97C24	24	5	22.8...25.6	80	220	1	2	18
BZX97C27	27	5	25.1...28.9	80	220	1	2	20
BZX97C30	30	5	28...32	80	220	1	2	22
BZX97C33	33	5	31...35	80	220	1	2	24
BZX97C36	36	5	34...38	90	250	1	2	26
BZX97C39	39	2.5	37...41	100	600	0.5	2	28
BZX97C43	43	2.5	40...46	100	700	0.5	2	32
BZX97C47	47	2.5	44...50	120	1000	0.5	2	34
BZX97C51	51	2.5	48...54	135	1000	0.5	2	36

<sup>1)</sup> Tested with pulses t<sub>p</sub> = 20 ms.