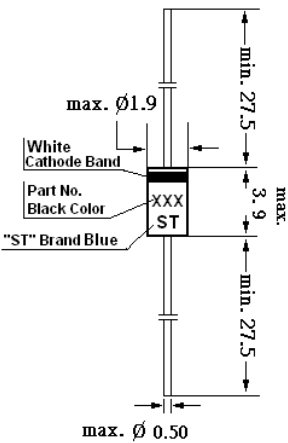


SILICON PLANAR ZENER DIODES

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



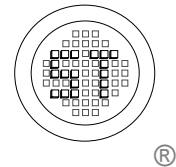
Glass case JEDEC DO-35
Dimensions in mm

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

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-55 to +175	$^{\circ}\text{C}$
¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case			

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

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3 ¹⁾	K/mW
Forward Voltage at $I_F = 100\text{mA}$	V_F	-	-	1	V
¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case					



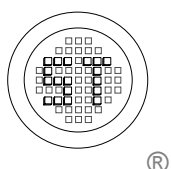
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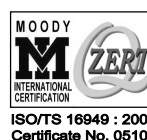
BZX97...

Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Leakage Current			Temp Coefficient of Zener Voltage
	V _{znom} V	I _{ZT} mA	for V _{ZT} V	r _{ZJT} Ω	r _{ZJK} at Ω	I _{ZK} mA	T _a = 25°C μA	T _a = 125°C μA	I _R at V _R V	TKvz %/K
BZX 97/C 2V4	2.4	5	2.28...2.56	<85	<600	1	<50	<10000	1	135
BZX 97/C 2V7	2.7	5	2.5...2.9	<85	<600	1	<50	<10000	1	135
BZX 97/C 3V0	3	5	2.8...3.2	<85	<600	1	<40	<4000	1	125
BZX 97/C 3V3	3.3	5	3.1...3.5	<85	<600	1	<40	<2000	1	115
BZX 97/C 3V6	3.6	5	3.4...3.8	<85	<600	1	<40	<2000	1	105
BZX 97/C 3V9	3.9	5	3.7...4.1	<85	<600	1	<40	<2000	1	95
BZX 97/C 4V3	4.3	5	4.0...4.6	<75	<600	1	<20	<1000	1	90
BZX 97/C 4V7	4.7	5	4.4...5	<60	<600	1	<10	<500	1	85
BZX 97/C 5V1	5.1	5	4.8...5.4	<35	<550	1	<2	<100	1	80
BZX 97/C 5V6	5.6	5	5.2...6	<25	<450	1	<2	<100	1	70
BZX 97/C 6V2	6.2	5	5.8...6.6	<10	<200	1	<2	<100	2	64
BZX 97/C 6V8	6.8	5	6.4...7.2	<8	<150	1	<2	<100	3	58
BZX 97/C 7V5	7.5	5	7...7.9	<7	<50	1	<2	<100	5	53
BZX 97/C 8V2	8.2	5	7.7...8.7	<7	<50	1	<2	<100	6	47
BZX 97/C 9V1	9.1	5	8.5...9.6	<10	<50	1	<2	<100	7	43
BZX 97/C 10	10	5	9.4...10.6	<15	<70	1	<2	<100	7.5	40
BZX 97/C 11	11	5	10.4...11.6	<20	<70	1	<2	<100	8.5	36
BZX 97/C 12	12	5	11.4...12.7	<20	<90	1	<2	<100	9	32
BZX 97/C 13	13	5	12.4...14.1	<26	<110	1	<2	<100	10	29
BZX 97/C 15	15	5	13.8...15.6	<30	<110	1	<2	<100	11	27
BZX 97/C 16	16	5	15.3...17.1	<40	<170	1	<2	<100	12	24
BZX 97/C 18	18	5	16.8...19.1	<50	<170	1	<2	<100	14	21
BZX 97/C 20	20	5	18.8...21.2	<55	<220	1	<2	<100	15	20
BZX 97/C 22	22	5	20.8...23.3	<55	<220	1	<2	<100	17	18
BZX 97/C 24	24	5	22.8...25.6	<80	<220	1	<2	<100	18	16
BZX 97/C 27	27	5	25.1...28.9	<80	<220	1	<2	<100	20	14
BZX 97/C 30	30	5	28...32	<80	<220	1	<2	<100	22	13
BZX 97/C 33	33	5	31...35	<80	<220	1	<2	<100	24	12
BZX 97/C 36	36	5	34...38	<90	<250	1	<2	<100	26	11
BZX 97/C 39	39	2.5	37...41	<100	<600	0.5	<2	<100	28	10
BZX 97/C 43	43	2.5	40...46	<100	<700	0.5	<2	<100	32	9.2
BZX 97/C 47	47	2.5	44...50	<120	<1000	0.5	<2	<100	34	8.5
BZX 97/C 51	51	2.5	48...54	<135	<1000	0.5	<2	<100	36	7.8

1) Tested with pulses t_p = 20 ms.



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Dated : 22/07/2005