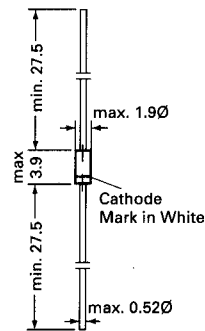


BZX 97...
SILICON PLANAR ZENER DIODES

Silicon Epitaxial Planar Diode

The Zener voltages are graded according to the international E 24 standard. Other voltage tolerances 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 _j	175	°C
Storage Temperature Range	T _s	-55 to + 175	°C
¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case			

Characteristics at T_{amb} = 25 °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 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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BZX 97 ...

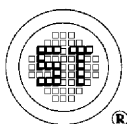
SILICON PLANAR ZENER DIODES

Type	Zener Voltage range ¹⁾			Dynamic resistance			Reverse leakage current			Temp. coefficient of Zener Voltage
	V _{Znom}	I _{ZT} for V _{ZT} ³⁾		r _{zT}	r _{zK} at I _{ZK}		T _a =25°C	T _a =125°C	I _R at V _R	TK _{VZ}
	V	mA	V	Ω	Ω	mA	μA	μA	V	%/K
BZX 97/C 2 V 4	2.4	5	2.28 ... 2.56	<85	<600	1	<10000	<50	1	135
BZX 97/C 2 V 7	2.7	5	2.5 ... 2.9	<85	<600	1	<10000	<50	1	135
BZX 97/C 3 V 0	3.0	5	2.8 ... 3.2	<85	<600	1	<4000	<40	1	125
BZX 97/C 3 V 3	3.3	5	3.1 ... 3.5	<85	<600	1	<2000	<40	1	115
BZX 97/C 3 V 6	3.6	5	3.4 ... 3.8	<85	<600	1	<2000	<40	1	105
BZX 97/C 3 V 9	3.9	5	3.7 ... 4.1	<85	<600	1	<2000	<40	1	95
BZX 97/C 4 V 3	4.3	5	4.0 ... 4.6	<75	<600	1	<1000	<20	1	90
BZX 97/C 4 V 7	4.7	5	4.4 ... 5.0	<60	<600	1	<500	<10	1	85
BZX 97/C 5 V 1	5.1	5	4.8 ... 5.4	<35	<550	1	<100	<2	1	80
BZX 97/C 5 V 6	5.6	5	5.2 ... 6.0	<25	<450	1	<100	<2	1	70
BZX 97/C 6 V 2	6.2	5	5.8 ... 6.6	<10	<200	1	<100	<2	2	64
BZX 97/C 6 V 8	6.8	5	6.4 ... 7.2	<8	<150	1	<100	<2	3	58
BZX 97/C 7 V 5	7.5	5	7.0 ... 7.9	<7	<50	1	<100	<2	5	53
BZX 97/C 8 V 2	8.2	5	7.7 ... 8.7	<7	<50	1	<100	<2	6	47
BZX 97/C 9 V 1	9.1	5	8.5 ... 9.6	<10	<50	1	<100	<2	7	43
BZX 97/C 10	10	5	9.4 ... 10.6	<15	<70	1	<100	<2	7.5	40
BZX 97/C 11	11	5	10.4 ... 11.6	<20	<70	1	<100	<2	8.5	36
BZX 97/C 12	12	5	11.4 ... 12.7	<20	<90	1	<100	<2	9	32
BZX 97/C 13	13	5	12.4 ... 14.1	<26	<110	1	<100	<2	10	29
BZX 97/C 15	15	5	13.8 ... 15.6	<30	<110	1	<100	<2	11	27
BZX 97/C 16	16	5	15.3 ... 17.1	<40	<170	1	<100	<2	12	24
BZX 97/C 18	18	5	16.8 ... 19.1	<50	<170	1	<100	<2	14	21
BZX 97/C 20	20	5	18.8 ... 21.2	<55	<220	1	<100	<2	15	20
BZX 97/C 22	22	5	20.8 ... 23.3	<55	<220	1	<100	<2	17	18
BZX 97/C 24	24	5	22.8 ... 25.6	<80	<220	1	<100	<2	18	16
BZX 97/C 27	27	5	25.1 ... 28.9	<80	<220	1	<100	<2	20	14
BZX 97/C 30	30	5	28 ... 32	<80	<220	1	<100	<2	22	13
BZX 97/C 33	33	5	31 ... 35	<80	<220	1	<100	<2	24	12
BZX 97/C 36	36	5	34 ... 38	<90	<250	1	<100	<2	26	11
BZX 97/C 39	39	2.5	37 ... 41	<100	<600 ²⁾	0.5	<100	<2	28	10
BZX 97/C 43	43	2.5	40 ... 46	<100	<700 ²⁾	0.5	<100	<2	32	9.2
BZX 97/C 47	47	2.5	44 ... 50	<120	<1000 ²⁾	0.5	<100	<2	34	8.5
BZX 97/C 51	51	2.5	48 ... 54	<135	<1000 ²⁾	0.5	<100	<2	36	7.8

¹⁾ Tested with pulses tp = 20 ms.

²⁾ Measured at I_Z = 0.5 mA.

³⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.



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