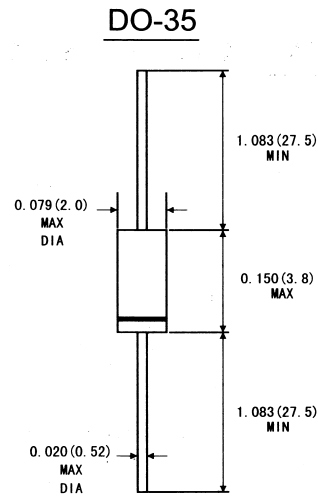


## FEATURES

The zener voltage are gaded accrding to the international E24 standard. Other voltage tolerances on request

## MECHANICAL DATA

- . **Case:** DO-35 glass case
- . **Polarity:** Color band denotes cathode end
- . **weight:** Approx. 0.13 gram



## ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES)(TA=25°C)

	Symbols	Value	Units
Zener current see table "Characteristics"			
Power dissipation at TA=25°C	P <sub>tot</sub>	500 <sup>1)</sup>	mW
Junction temperature	T <sub>J</sub>	175	°C
Storage temperature range	T <sub>STG</sub>	-55 to +175	°C
1)Valid provided that a distance of 8mm from case are kept at ambient temperature			

## ELECTRCAL CHARACTERISTICS(TA=25°C)

	Symbols	Min	Typ	Max	Units
Thermal resistance junction to ambient	R $\theta$ JA			300 <sup>1)</sup>	K/W
Forward voltage at I <sub>F</sub> =100mA	V <sub>F</sub>			1.0	V
1) Valid provided that a distance at 8mm from case are kept at ambient temperature					

## BZX97... SILICON PLANAR ZENER DIODES

Type	Zener Voltage range 1)			Dynamic resistance			Reverse leakage current			Temp Coefficient of zener voltage	
	V <sub>znom</sub>	I <sub>zT</sub> for V <sub>zT</sub> 2)		r <sub>zjt</sub> and r <sub>zjk</sub> at I <sub>zk</sub>			I <sub>R</sub> and I <sub>R 2)</sub> at V <sub>R</sub>			TK <sub>vz</sub>	
	v	mA	V	Ω	Ω	mA	μA	μA	V	%/K	
BZX 97/C 2V4	2.4	5	2.28..2.56	<85	<600	1	<10000	<50	1	135	
BZX 97/C 2V7	2.7		2.5..2.9				<10000	<50		135	
BZX 97/C 3V0	3.0		2.8..3.2				<4000	<40		125	
BZX 97/C 3V3	3.3		3.1..3.5				<2000			<40	115
BZX 97/C 3V6	3.6		3.4..3.8								105
BZX 97/C 3V9	3.9		3.7..4.1								95
BZX 97/C 4V3	4.3		4.0..4.6	<75			<1000	<20		90	
BZX 97/C 4V7	4.7		4.4..5.0	<60			<500	<10		85	
BZX 97/C 5V1	5.1		4.8..5.4	<35	<550		<100	<2		80	
BZX 97/C 5V6	5.6		5.2..6.0	<25	<450					70	
BZX 97/C 6V2	6.2		5.8..6.6	<10	<200				2	64	
BZX 97/C 6V8	6.8		6.4..7.2	<8	<150				3	58	
BZX 97/C 7V5	7.5		7.0..7.9	<7	<50				5	53	
BZX 97/C 8V2	8.2		7.7..8.7	<7					6	47	
BZX 97/C 9V1	9.1		8.5..9.6	<10					7	43	
BZX 97/C 10	10		9.4..10.6	<15	<70				7.5	40	
BZX 97/C 11	11		10.4..11.6	<20	<70				8.5	36	
BZX 97/C 12	12		11.4..12.7	<20	<90				9	32	
BZX 97/C 13	13		12.4..14.1	<26	<110				10	29	
BZX 97/C 15	15		13.8..15.6	<30	<110				11	27	
BZX 97/C 16	16		15.3..17.1	<40	<170				12	24	
BZX 97/C 18	18		16.8..19.1	<50	<170				14	21	
BZX 97/C 20	20		18.8..21.2	<55	<220				15	20	
BZX 97/C 22	22		20.8..23.3	<55	<220				17	18	
BZX 97/C 24	24		22.8..25.6	<80					18	16	
BZX 97/C 27	27		25.1..28.9						20	14	
BZX 97/C 30	30		28..32						22	13	
BZX 97/C 33	33		31..35						24	12	
BZX 97/C 36	36		34..38	<90	<250				26	11	
BZX 97/C 39	39	2.5	37..41	<100	<6002)	0.5			28	10	
BZX 97/C 43	43		40..46	<100	<7002)				32	9.2	
BZX 97/C 47	47		44..50	<120	<10002)				34	8.5	
BZX 97/C 51	51		48...54	<135	<10002)				36	7.8	

1) Teated with pulses tp=20ms

2) Measured at I<sub>Z</sub>=0.5mA

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