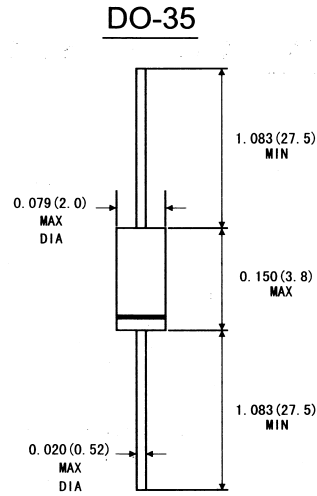


### FEATURES

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



Dimensions in inches and (millimeters)

### 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 <sub>θ JA</sub>			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>R2</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			115		
BZX 97/C 3V6	3.6		3.4..3.8				<1000	<20		105		
BZX 97/C 3V9	3.9		3.7..4.1							95		
BZX 97/C 4V3	4.3		4.0..4.6				<60	<500		<10	90	
BZX 97/C 4V7	4.7		4.4..5.0				<35	<550		<100	<2	85
BZX 97/C 5V1	5.1		4.8..5.4				<25	<450				80
BZX 97/C 5V6	5.6		5.2..6.0				<10	<200				70
BZX 97/C 6V2	6.2		5.8..6.6	<8	<150		2	64				
BZX 97/C 6V8	6.8		6.4..7.2	<7	<50		3	58				
BZX 97/C 7V5	7.5		7.0..7.9	<7			5	53				
BZX 97/C 8V2	8.2		7.7..8.7	<10	6		47					
BZX 97/C 9V1	9.1		8.5..9.6	<15	<70		7	43				
BZX 97/C 10	10		9.4..10.6	<20	<70		7.5	40				
BZX 97/C 11	11		10.4..11.6	<20	<90		8.5	36				
BZX 97/C 12	12		11.4..12.7	<26	<110		9	32				
BZX 97/C 13	13		12.4..14.1	<30	<110		10	29				
BZX 97/C 15	15		13.8..15.6	<40	<170		11	27				
BZX 97/C 16	16	15.3..17.1	<50	<170	12	24						
BZX 97/C 18	18	16.8..19.1	<55	<220	14	21						
BZX 97/C 20	20	18.8..21.2	<80	<220	15	20						
BZX 97/C 22	22	20.8..23.3			17	18						
BZX 97/C 24	24	22.8..25.6	2.5	<100	<6002)	0.5	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	37..41	<100	<7002)	28	10						
BZX 97/C 43	43	40..46	<120	<10002)	32	9.2						
BZX 97/C 47	47	44..50	<135	<10002)	34	8.5						
BZX 97/C 51	51	48...54			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