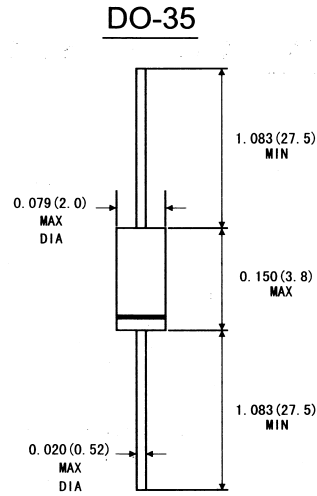


### FEATURES

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	0.5	<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				<500	<10		95	
BZX 97/C 4V3	4.3		4.0..4.6				<75	<100		<20	90
BZX 97/C 4V7	4.7		4.4..5.0				<60			<10	85
BZX 97/C 5V1	5.1		4.8..5.4				<35			<550	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	37..41			<100	<6002)	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			

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1)Teated with pulses tp=20ms  
 2)Measured at IZ=0.5mA  
 3)Valid provided that leads are kept at ambient temperature at a distance of 8mm from case