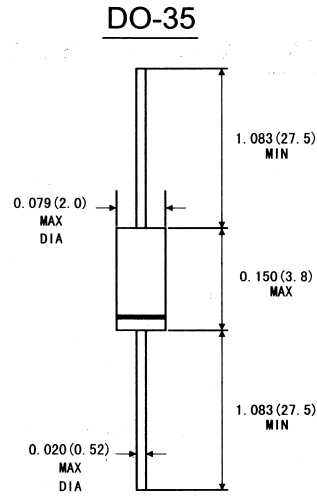


FEATURES

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 _{tot}	500 ¹⁾	mW
Junction temperature	T _J	175	°C
Storage temperature range	T _{STG}	-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 _{θ JA}			300 ¹⁾	K/W
Forward voltage at I _F =100mA	V _F			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 _{znom}	I _{ZT} for V _{ZT} 2)		r _{ZT} and r _{ZK} at I _{ZK}			I _R and I _{R2} at V _R			TK _{VZ}
	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
BZX 97/C 3V9	3.9		3.7..4.1				<500			
BZX 97/C 4V3	4.3		4.0..4.6					<75		90
BZX 97/C 4V7	4.7		4.4..5.0				<60	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	1		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 I_Z=0.5mA

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