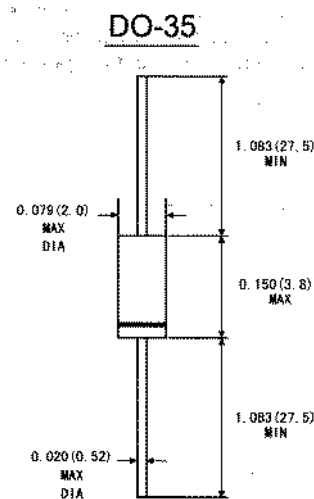


## FEATURES

- The zener voltage are graded according to the international E24 standard .Other voltage tolerance and higher zener voltage on request.

## MECHANICAL DATA

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



Dimensions in inches and (millimeters)

## ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES)(TA=25℃ )

	Symbols	Value	Units
Zener current see table "Characteristics"			
Power dissipation at TA=50℃	P <sub>tot</sub>	500 <sup>1)</sup>	mW
Junction temperature	T <sub>J</sub>	175	℃
Storage temperature range	T <sub>STG</sub>	-65 to + 175	℃

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

## ELECTRICAL CHARACTERISTICS(TA=25℃ )

	Symbols	Min.	Typ.	Max.	Units
Thermal resistance junction to ambient	R <sub>θJA</sub>			300 <sup>1)</sup>	K/W
Forward voltage at IF=100mA	V <sub>F</sub>			1	V

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

## BXZ55... SILICON PLANAR ZENER DIODES

Type	Zener Voltage Range1)			Dynamic resistance			Reverse leakage current			Temp coefficient of zener voltage
	VZNOM	IZT for VZT 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	μ A	μ A	V	%/K
BZX 55/C 0V8 3)	0.8	5	0.73...0.83	<8	<50	1	-	-	-	-0.26...-0.23
BZX 55/C 2V0	2.0		1.9...2.1	<85	<600		<100	<200	<1	-0.09...-0.06
BZX 55/C 2V4	2.4		2.28...2.56				<50	<100		
BZX 55/C 2V7	2.7		2.5...2.9				<10	<50		
BZX 55/C 3V0	3		2.8...3.2				<4	<40		-0.08...-0.05
BZX 55/C 3V3	3.3		3.1...3.5				<2			
BZX 55/C 3V6	3.6		3.4...3.8							
BZX 55/C 3V9	3.9		3.7...4.1					<1		<20
BZX 55/C 4V3	4.3		4.0...4.6	<75			<0.5	<10		-0.05...+0.02
BZX 55/C 4V7	4.7		4.4...5.0	<60			<0.1	<2		2.0
BZX 55/C 5V1	5.1		4.8...5.4	<35	<550				3.0	0.03...0.07
BZX 55/C 5V6	5.6		5.2...6.0	<25	<450				5.0	0.03...0.07
BZX 55/C 6V2	6.2		5.8...6.6	<10	<200				6.2	0.03...0.08
BZX 55/C 6V8	6.8		6.4...7.2	<8	<150				6.8	0.03...0.09
BZX 55/C 7V5	7.5		7.0...7.9	<7	<50				7.5	0.03...0.1
BZX 55/C 8V2	8.2		7.7...8.7	<7					8.2	0.03...0.11
BZX 55/C 9V1	9.1		8.5...9.6	<10					9.1	
BZX 55/C 10	10		9.4...10.6	<15	<70				10.0	
BZX 55/C 11	11		10.4...11.6	<20	<70				11.0	
BZX 55/C 12	12		11.4...12.7	<20	<90				12	
BZX 55/C 13	13		12.4...14.1	<26	<110				13	
BZX 55/C 15	15		13.8...15.6	<30	<110				15	
BZX 55/C 16	16		15.3...17.1	<40	<170					
BZX 55/C 18	18		16.8...19.1	<50	<170					
BZX 55/C 20	20		18.8...21.2	<55	<220					



CHENYI ELECTRONICS

## BZX55-C0V8 THRU BZX55-C200

0.5W SILICON PLANAR ZENER DIODES

### BZX55... SILICON PLANAR ZENER DIODES

BZX 55/C 22	22	5	20.8...23.3	<55	<220	1	<0.1	<2	16	0.04...0.12	
BZX 55/C 24	24		22.8...25.6	<80					18		
BZX 55/C 27	27		25.1...28.9	<80					20		
BZX 55/C 30	30		28...32						22		
BZX 55/C 33	33		31...35						24		
BZX 55/C 36	36		34...38						27		
BZX 55/C 39	39	2.5	37...41		<500	0.5		<5	30		0.04...0.12
BZX 55/C 43	43		40...46		<500				33		
BZX 55/C 47	47		44...50		<600				36		
BZX 55/C 51	51		48...54		<700		39				
BZX 55/C 56	56		52...60		<700		43				
BZX 55/C 62	62		58...66		<1000		47				
BZX 55/C 68	68		64...72				51				
BZX 55/C 75	75		70...79				56				
BZX 55/C 82	82	1	77...87		<1500	0.25	<10	62	0.05...0.12		
BZX 55/C 91	91		85...96		<2000	0.1		68			
BZX 55/C 100	100		94...106		<5000			75			
BZX 55/C 110	110		104...116		<5000			82			
BZX 55/C 120	120		114...127		<5500			91			
BZX 55/C 130	130		124...141		<6000			100			
BZX 55/C 150	150		138...156		<6500			110			
BZX 55/C 160	160		153...171		<7000			120			
BZX 55/C 180	180		168...191		<8500			130			
BZX 55/C 200	200		188...212		<10000			150			

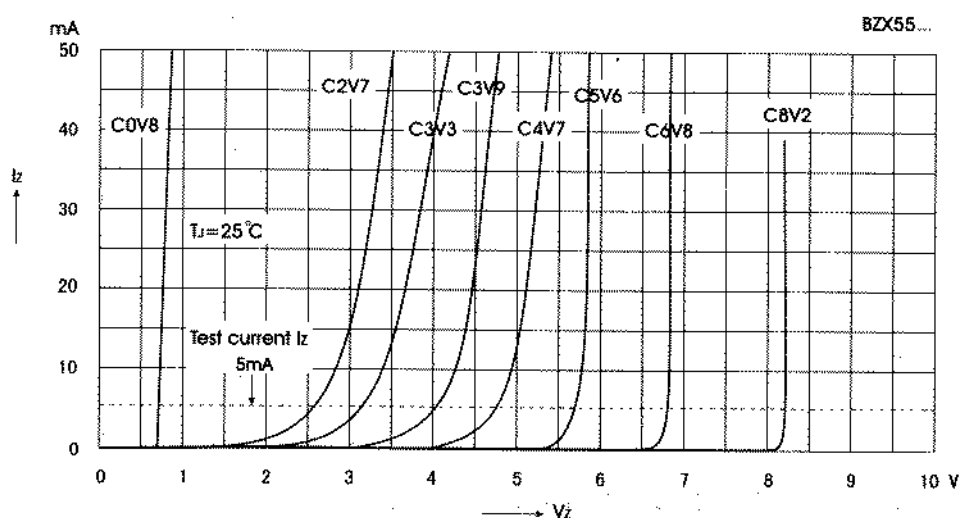
1) Tested with pulses  $t_p=20\text{ms}$

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

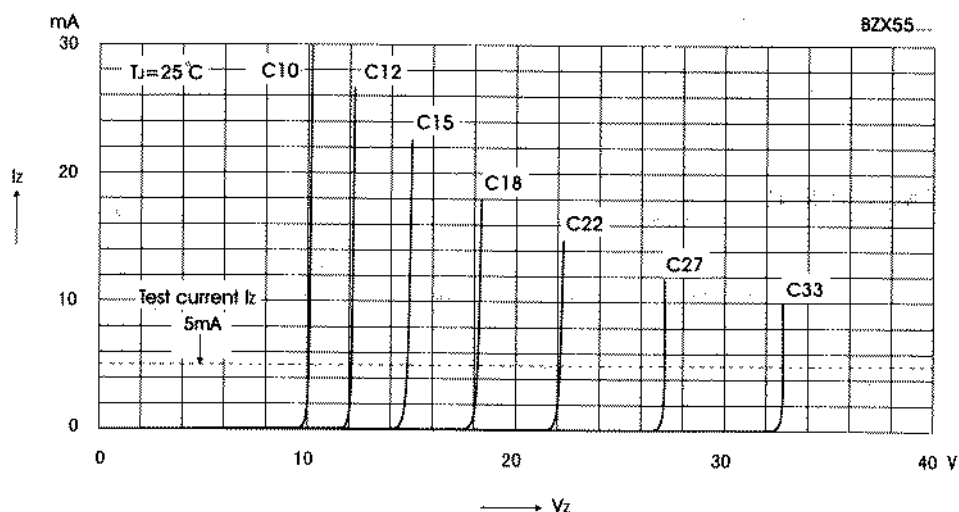
3) The BZX55-C0V8 is silicon diode with operation in forward direction. Hence, the index of all parameters should be 'F' instead of 'Z'. Connect the cathode lead to the negative pole.

## BXZ55... SILICON PLANAR ZENER DIODES

### BREAKDOWN CHARACTERISTICS AT $T_J = \text{CONSTANT}$ (PULSED)



### BREAKDOWN CHARACTERISTICS AT $T_J = \text{CONSTANT}$ (PULSED)



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