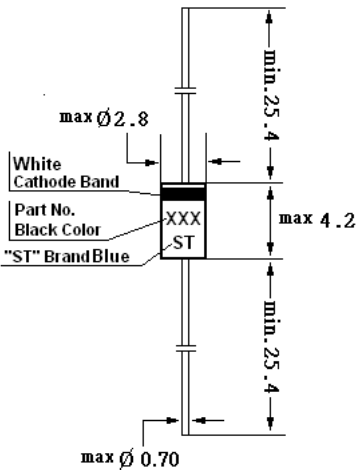


BZX2.5C5V1~47V

SILICON PLANAR POWER ZENER DIODES

for use in stabilizing and clipping circuits with high power rating. The Zener voltages are graded according to the international E 24 standard. Other tolerances and higher Zener voltage Upon request.



Glass Case JEDEC DO-41
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

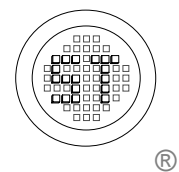
	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation	P_{tot}	2.5 ¹⁾	W
Junction Temperature	T_j	200	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-55 to +200	$^{\circ}\text{C}$

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

Characteristics at $T_{\text{amb}} = 25^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	130 ¹⁾	K/W

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



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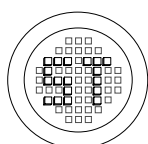
BZX2.5C5V1~47V

SILICON PLANAR POWER ZENER DIODES

Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Leakage Current		Temp . coefficient of Zener Voltage
	V _{znom} V	I _{ZT} mA	for V _{ZT} ²⁾ V	r _{ZJT} Ω	r _{ZJK} at Ω	I _{ZK} mA	I _R ²⁾ at μA	V _R V	TKvz %/K
BZX 2.5/C 5V1	5.1	45	4.8...5.4	<10	<500	1	<1	1.5	-0.01...+0.04
BZX 2.5/C 5V6	5.6	45	5.2...6.0	<7	<400	1	<1	2	0...+0.045
BZX 2.5/C 6V2	6.2	35	5.8...6.6	<4	<300	1	<1	3	+0.01...+0.055
BZX 2.5/C 6V8	6.8	35	6.4...7.2	<3.5	<300	1	<1	4	+0.015...+0.06
BZX 2.5/C 7V5	7.5	35	7.0...7.9	<3	<200	0.5	<1	4.5	+0.02...+0.065
BZX 2.5/C 8V2	8.2	25	7.7...8.7	<5	<200	0.5	<1	6.2	0.03...0.07
BZX 2.5/C 9V1	9.1	25	8.5...9.6	<5	<200	0.5	<1	6.8	0.035...0.075
BZX 2.5/C 10	10	25	9.4...10.6	<7	<200	0.5	<0.5	7	0.04...0.08
BZX 2.5/C 11	11	20	10.4...11.6	<8	<300	0.5	<0.5	8.2	0.045...0.08
BZX 2.5/C 12	12	20	11.4...12.7	<9	<350	0.5	<0.5	9.1	0.045...0.085
BZX 2.5/C 13	13	20	12.4...14.1	<10	<400	0.5	<0.5	10	0.05...0.085
BZX 2.5/C 15	15	15	13.8...15.6	<15	<500	0.5	<0.5	11	0.055...0.09
BZX 2.5/C 16	16	15	15.3...17.1	<15	<500	0.5	<0.5	12	0.055...0.09
BZX 2.5/C 18	18	15	16.8...19.1	<20	<500	0.5	<0.5	13	0.06...0.09
BZX 2.5/C 20	20	10	18.8...21.2	<24	<600	0.5	<0.5	15	0.06...0.09
BZX 2.5/C 22	22	10	20.8...23.3	<25	<600	0.5	<0.5	16	0.06...0.095
BZX 2.5/C 24	24	10	22.8...25.6	<25	<600	0.5	<0.5	18	0.06...0.095
BZX 2.5/C 27	27	8	25.1...28.9	<30	<750	0.25	<0.5	20	0.06...0.095
BZX 2.5/C 30	30	8	28...32	<30	<1000	0.25	<0.5	22	0.06...0.095
BZX 2.5/C 33	33	8	31...35	<35	<1000	0.25	<0.5	24	0.06...0.095
BZX 2.5/C 36	36	8	34...38	<40	<1000	0.25	<0.5	27	0.06...0.095
BZX 2.5/C 39	39	6	37...41	<50	<1000	0.25	<0.5	30	0.06...0.095
BZX 2.5/C 43	43	6	40...46	<50	<1000	0.25	<0.5	33	0.06...0.095
BZX 2.5/C 47	47	4	44...50	<90	<1500	0.25	<0.5	36	0.06...0.095

1) Tested with pulses t_p = 20 ms.

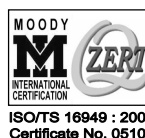
1) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case..



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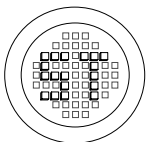
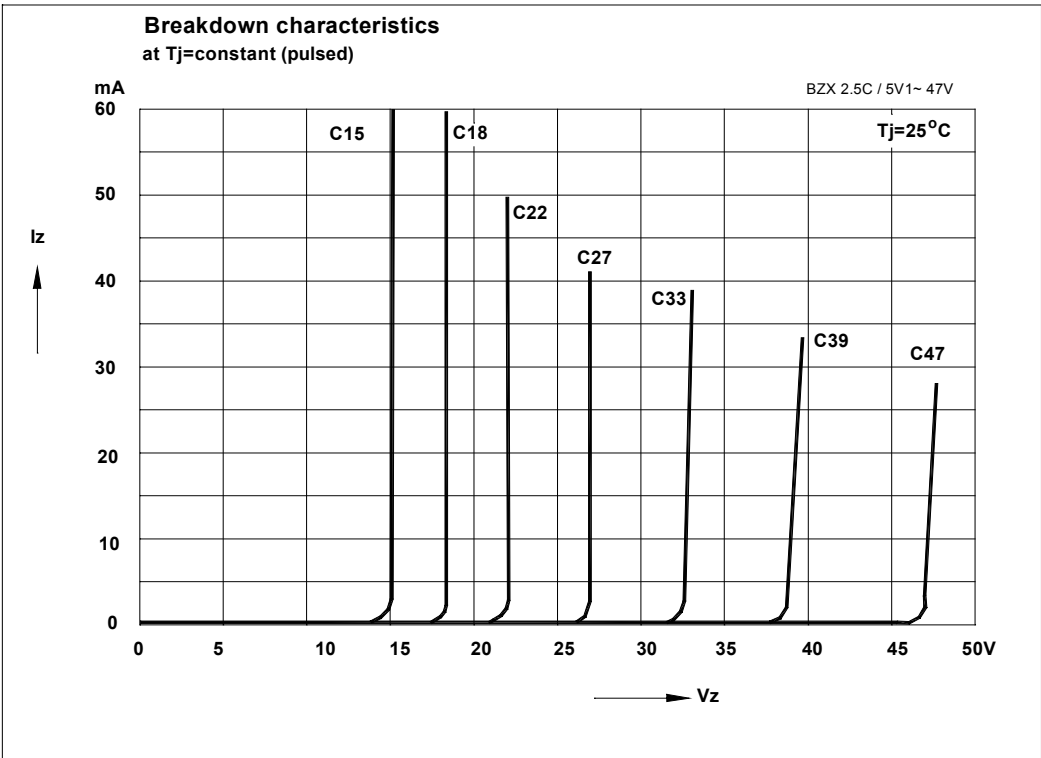
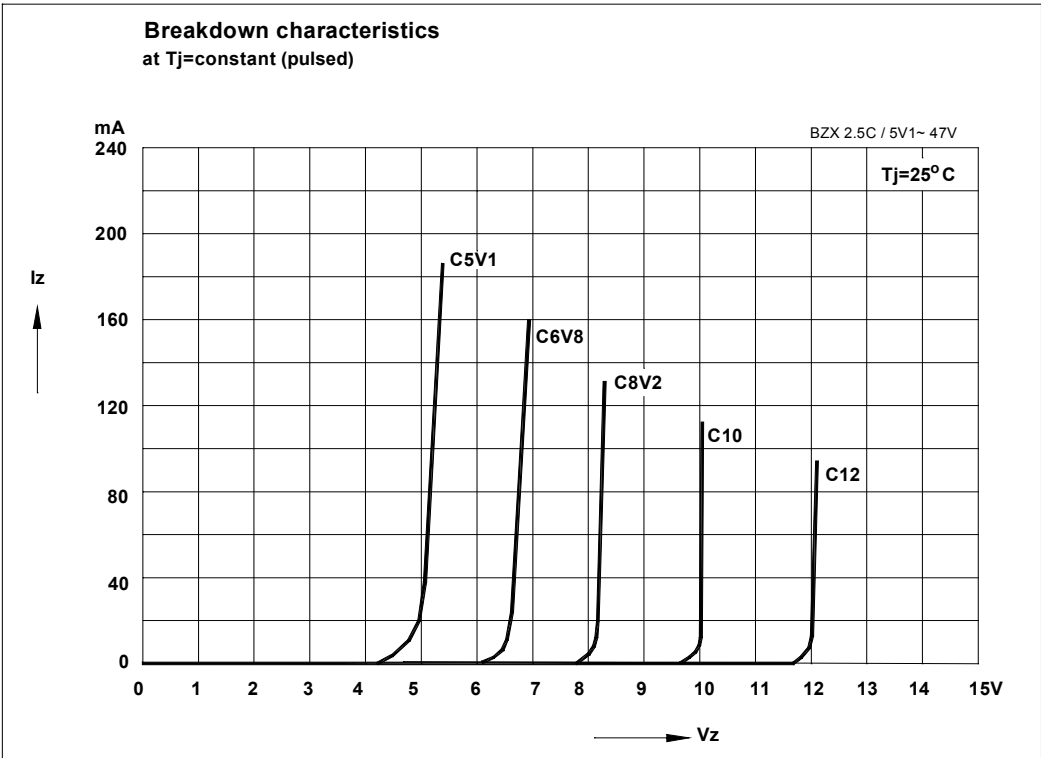
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