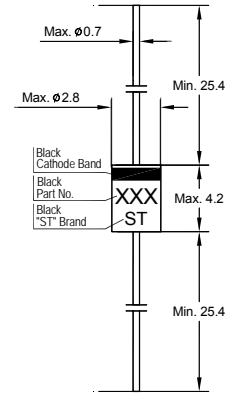


# BZX2.5C

## 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 DO-41  
Dimensions in mm

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

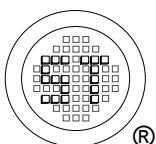
Parameter	Symbol	Value	Unit
Power Dissipation	$P_{tot}$	2.5 <sup>1)</sup>	W
Junction Temperature	$T_j$	200	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 55 to + 200	$^\circ\text{C}$

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

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{thA}$	130 <sup>1)</sup>	K/W

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



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Dated : 12/06/2007

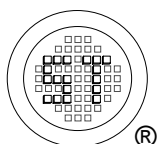
# BZX2.5C

## Characteristics at $T_j = 25\text{ }^\circ\text{C}$

Type	Zener Voltage Range <sup>1)</sup>			Maximum Dynamic Resistance			Maximum Reverse Leakage Current	
	$V_{Znom}$ V	$I_{ZT}$ for mA	$V_{ZT}$ V	$r_{ZJT}$ $\Omega$	$r_{ZJK}$ $\Omega$	at $I_{ZK}$ mA	$I_R$ <sup>2)</sup> $\mu\text{A}$	at $V_R$ V
BZX2.5C5V1	5.1	45	4.8...5.4	10	500	1	1	1.5
BZX2.5C5V6	5.6	45	5.2...6	7	400	1	1	2
BZX2.5C6V2	6.2	35	5.8...6.6	4	300	1	1	3
BZX2.5C6V8	6.8	35	6.4...7.2	3.5	300	1	1	4
BZX2.5C7V5	7.5	35	7...7.9	3	200	0.5	1	4.5
BZX2.5C8V2	8.2	25	7.7...8.7	5	200	0.5	1	6.2
BZX2.5C9V1	9.1	25	8.5...9.6	5	200	0.5	1	6.8
BZX2.5C10	10	25	9.4...10.6	7	200	0.5	0.5	7
BZX2.5C11	11	20	10.4...11.6	8	300	0.5	0.5	8.2
BZX2.5C12	12	20	11.4...12.7	9	350	0.5	0.5	9.1
BZX2.5C13	13	20	12.4...14.1	10	400	0.5	0.5	10
BZX2.5C15	15	15	13.8...15.6	15	500	0.5	0.5	11
BZX2.5C16	16	15	15.3...17.1	15	500	0.5	0.5	12
BZX2.5C18	18	15	16.8...19.1	20	500	0.5	0.5	13
BZX2.5C20	20	10	18.8...21.2	24	600	0.5	0.5	15
BZX2.5C22	22	10	20.8...23.3	25	600	0.5	0.5	16
BZX2.5C24	24	10	22.8...25.6	25	600	0.5	0.5	18
BZX2.5C27	27	8	25.1...28.9	30	750	0.25	0.5	20
BZX2.5C30	30	8	28...32	30	1000	0.25	0.5	22
BZX2.5C33	33	8	31...35	35	1000	0.25	0.5	24
BZX2.5C36	36	8	34...38	40	1000	0.25	0.5	27
BZX2.5C39	39	6	37...41	50	1000	0.25	0.5	30
BZX2.5C43	43	6	40...46	50	1000	0.25	0.5	33
BZX2.5C47	47	4	44...50	90	1500	0.25	0.5	36

<sup>1)</sup> Tested with pulses  $t_p = 20\text{ ms}$ .

<sup>2)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.



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ISO/TS 16949 : 2002  
Certificate No. 05103



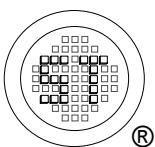
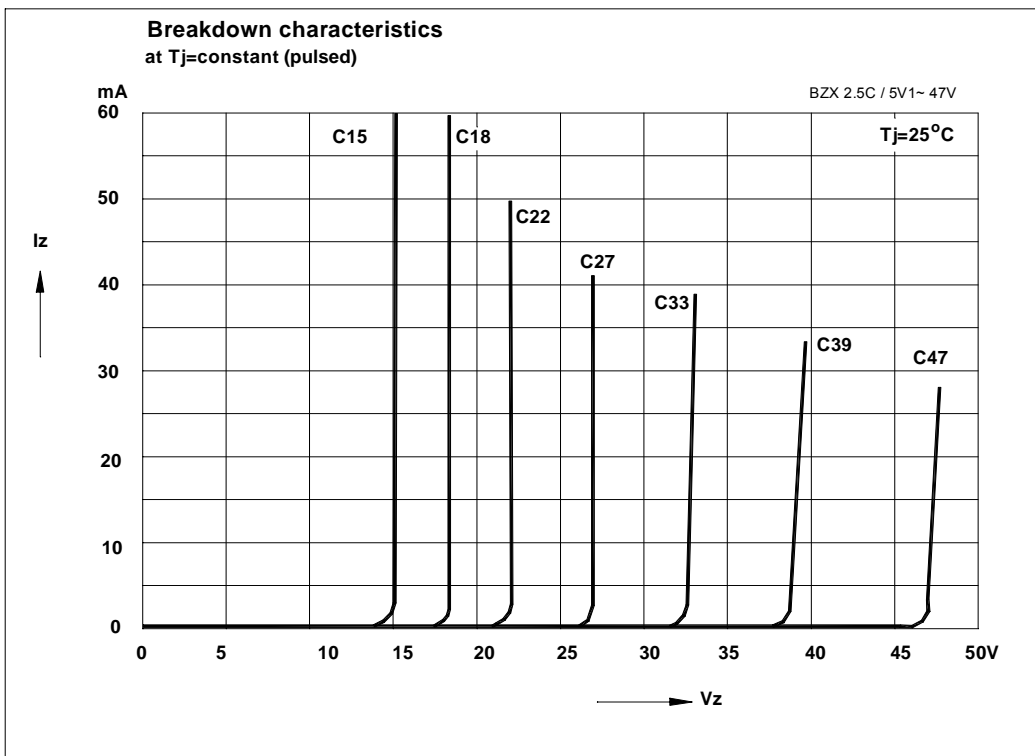
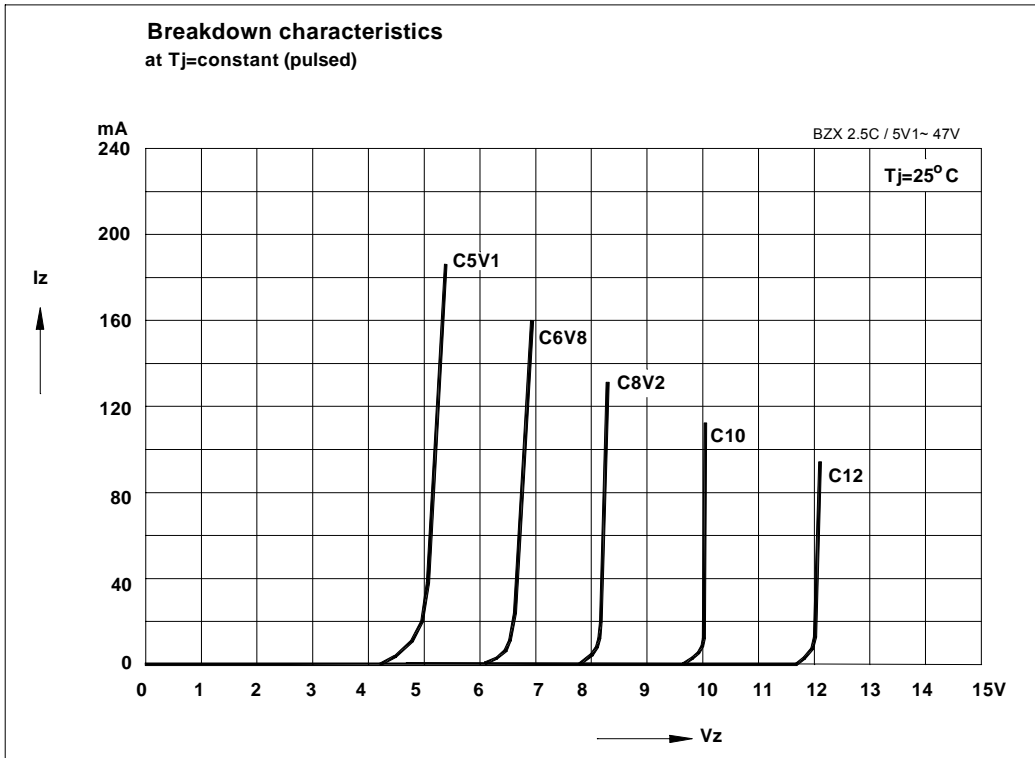
ISO 14001:2004  
Certificate No. 7116



ISO 9001:2000  
Certificate No. 0506098

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