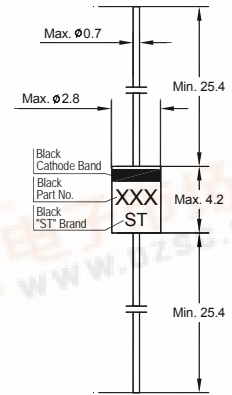


# BZX2.5C

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## 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	$T_{stg}$	- 55 to + 200	$^\circ\text{C}$

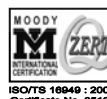
<sup>1)</sup> Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.

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

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	1.2	V

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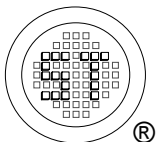
# BZX2.5C

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

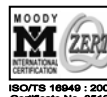
Type	Zener Voltage Range <sup>1)</sup>				Dynamic Resistance				Reverse Current	
	$V_{Znom}$	$V_Z$		at $I_{ZT}$	$Z_{ZT}$	at $I_{ZT}$	$Z_{ZK}$	at $I_{ZK}$	$I_R$	at $V_R$
	(V)	Min.(V)	Max.(V)	(mA)	Max. ( $\Omega$ )	(mA)	Max. ( $\Omega$ )	(mA)	Max. ( $\mu\text{A}$ )	(V)
BZX2.5C5V1	5.1	4.8	5.4	45	10	45	500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

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



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ISO/TS 16949:2002  
Certificate No. 05103

ISO 14001:2004  
Certificate No. 7116

ISO 9001:2000  
Certificate No. 050059

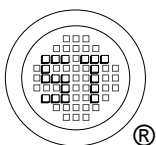
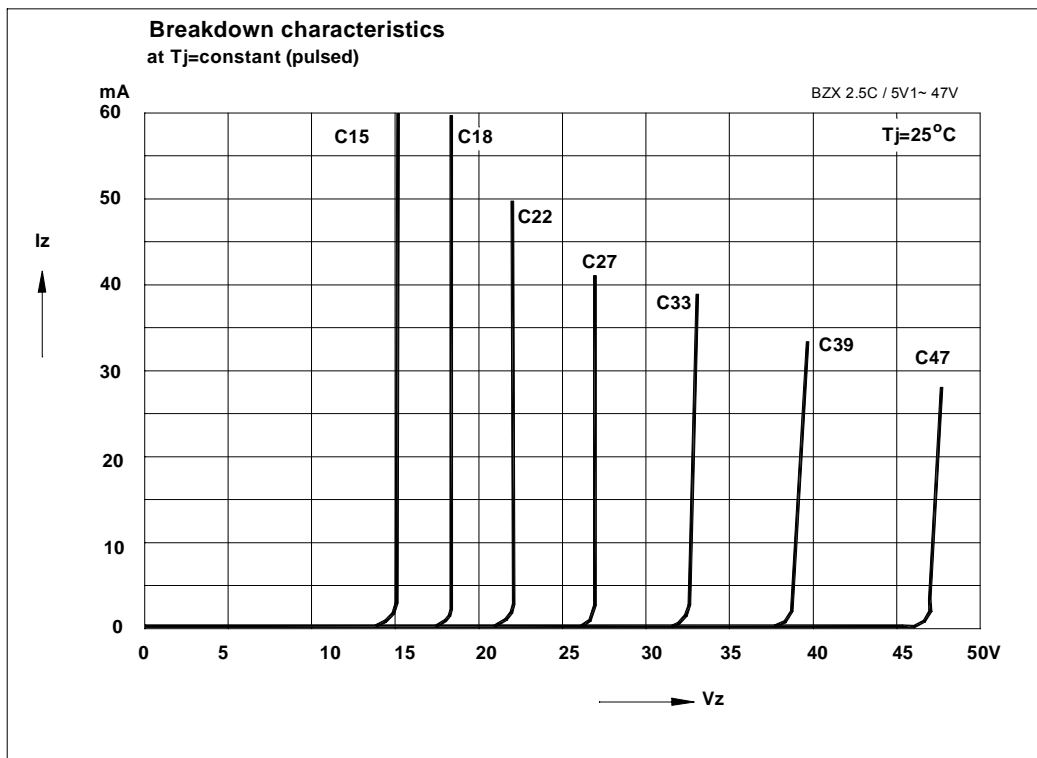
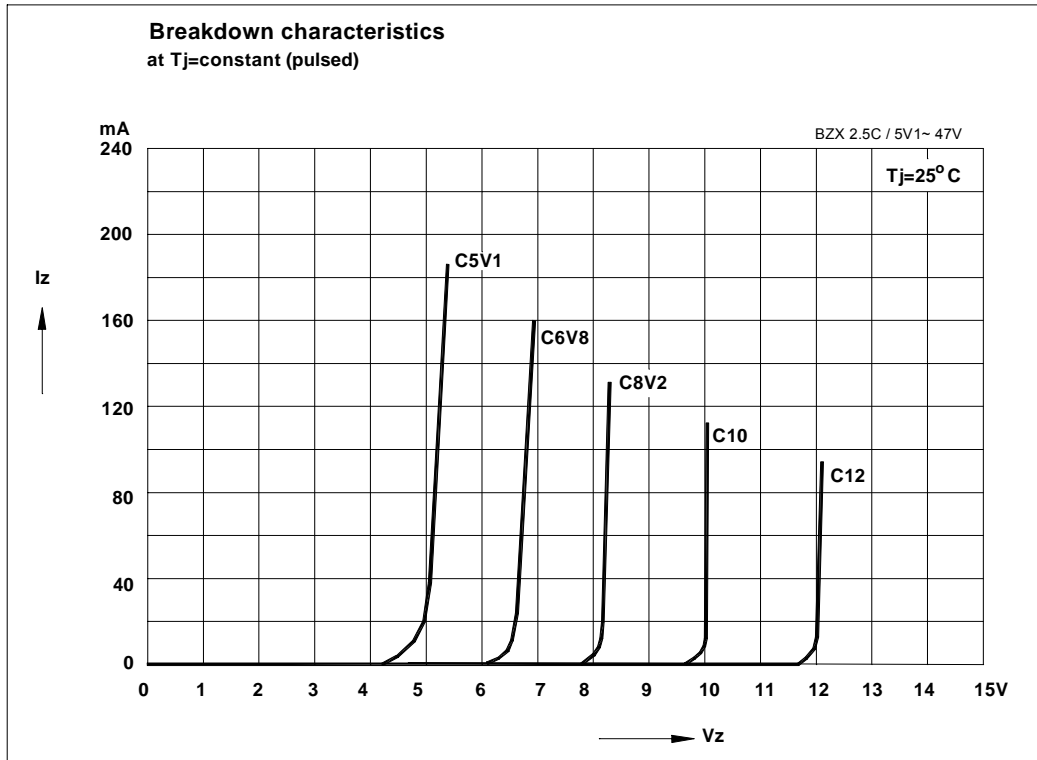
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Certificate No. 7116

Dated : 18/07/2009

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