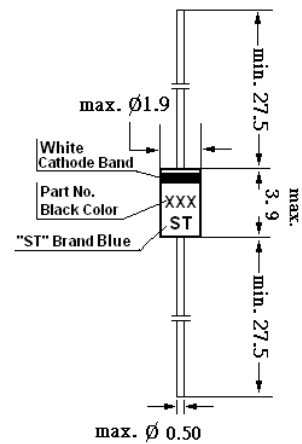


SILICON PLANAR ZENER DIODES

The Zener voltages are graded according to the international E24 standard. Smaller voltage tolerances and higher Zener voltages are upon request.



Glass case JEDEC DO-35
Dimensions in mm

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

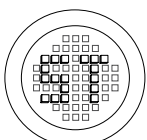
	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation	P_{tot}	500 ¹⁾	mW
Junction Temperature	T_j	175	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-55 to +175	$^{\circ}\text{C}$

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

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

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3 ¹⁾	K/mW

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



®

РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

ZPD 2V7B...ZPD 62B

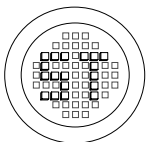
Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Temp. coeff. of Zener Volt. at $I_Z = 5\text{mA}$ $\alpha_{VZ} 10^{-4}/\text{K}$	Reverse Voltage At $I = 100\text{nA}$ $V_R \text{ V}$	Admissible Zener Current ²⁾	
	V_{Znom} V	I_{ZT} mA	for V_{ZT} ²⁾ V	r_{ZJT} Ω	r_{ZJK} at Ω	I_{ZK} mA			at $T_{amb}=45^\circ\text{C}$ $I_Z \text{ mA}$	at $T_{amb}=25^\circ\text{C}$ $I_Z \text{ mA}$
ZPD 2V7B	2.7	5	2.64...2.76	(<83)	<50	1	-9...-4	-	135	160
ZPD 3V0B	3.0	5	2.94...3.06	(<95)	<500	1	-9...-3	-	117	140
ZPD 3V3B	3.3	5	3.23...3.37	(<95)	<500	1	-8...-3	-	109	130
ZPD 3V6B	3.6	5	3.52...3.68	(<95)	<500	1	-8...-3	-	101	120
ZPD 3V9B	3.9	5	3.82...3.98	(<95)	<500	1	-7...-3	-	92	110
ZPD 4V3B	4.3	5	4.21...4.39	(<95)	<500	1	-6...-1	-	85	100
ZPD 4V7B	4.7	5	4.60...4.80	(<78)	<500	1	-5...+2	-	76	90
ZPD 5V1B	5.1	5	4.99...5.21	(<60)	<480	1	-3...+4	>0.8	67	80
ZPD 5V6B	5.6	5	5.48...5.72	(<40)	<400	1	-2...+6	>1	59	70
ZPD 6V2B	6.2	5	6.07...6.33	(<10)	<200	1	-1...+7	>2	54	64
ZPD 6V8B	6.8	5	6.66...6.94	(<8)	<150	1	+2...+7	>3	49	58
ZPD 7V5B	7.5	5	7.35...7.65	(<7)	<50	1	+3...+7	>5	44	53
ZPD 8V2B	8.2	5	8.03...8.37	(<7)	<50	1	+4...+7	>6	40	47
ZPD 9V1B	9.1	5	8.91...9.29	(<10)	<50	1	+5...+8	>7	36	43
ZPD 10B	10	5	9.8...10.2	(<15)	<70	1	+5...+8	>7.5	33	40
ZPD 11B	11	5	10.78...11.22	(<20)	<70	1	+5...+9	>8.5	30	36
ZPD 12B	12	5	11.76...12.24	(<20)	<90	1	+6...+9	>9	28	32
ZPD 13B	13	5	12.74...13.26	(<25)	<110	1	+7...+9	>10	25	29
ZPD 15B	15	5	14.7...15.3	(<30)	<110	1	+7...+9	>11	23	27
ZPD 16B	16	5	15.68...16.32	(<40)	<170	1	+8...+9.5	>12	20	24
ZPD 18B	18	5	17.64...18.36	(<50)	<170	1	+8...+9.5	>14	18	21
ZPD 20B	20	5	19.6...20.4	(<50)	<220	1	+8...+10	>15	17	20
ZPD 22B	22	5	21.56...22.44	(<55)	<220	1	+8...+10	>17	16	18
ZPD 24B	24	5	23.52...24.48	(<80)	<220	1	+8...+10	>18	13	16
ZPD 27B	27	5	26.46...27.54	(<80)	<250	1	+8...+10	>20	12	14
ZPD 30B	30	5	29.4...30.6	(<80)	<250	1	+8...+10	>22.5	10	13
ZPD 33B	33	5	32.34...33.66	(<80)	<250	1	+8...+10	>25	9	12
ZPD 36B	36	5	35.28...36.72	(<90)	<250	1	+8...+10	>27	9	11
ZPD 39B	39	5	38.22...39.78	(<90)	<300	1	+10...+12	>29	8	10
ZPD 43B	43	5	42.14...43.86	(<100)	<700	1	+10...+12	>32	7	9.2
ZPD 47B	47	5	46.06...47.94	(<100)	<750	1	+10...+12	>35	6	8.5
ZPD 51B	51	5	49.98...52.02	(<100)	<750	1	+10...+12	>38	6	7.8
ZPD 62B	62	2.5	60.76...63.24	(<150 ³⁾)	<1000 ⁴⁾)	1	Typ.+10 ³⁾)	>47	4.8	6.4

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

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

3) At $I_Z = 2.5\text{mA}$

4) At $I_Z = 0.5\text{mA}$



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116

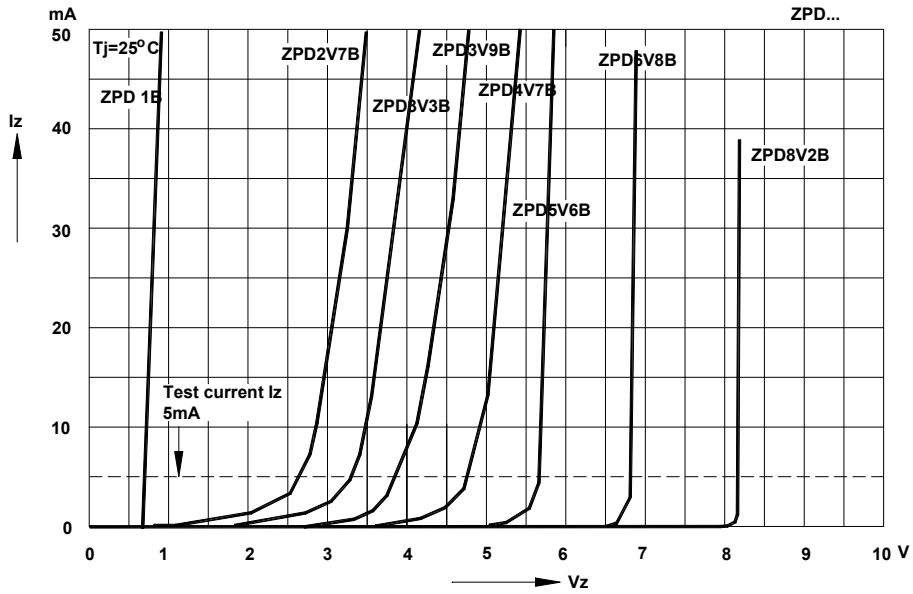


ISO 9001 : 2000
Certificate No. 559-1996-AL-R02-004

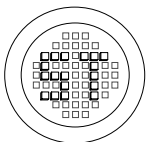
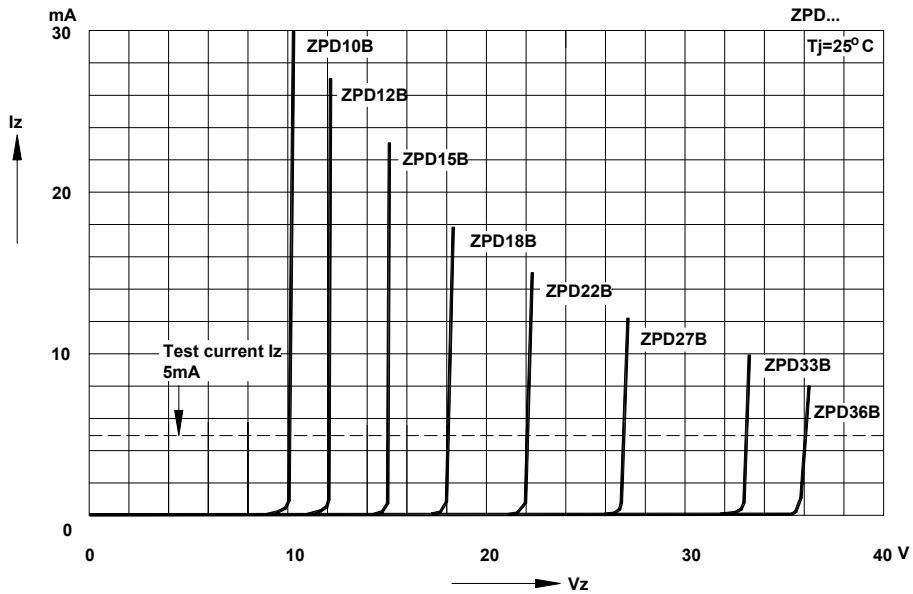
Dated : 22/07/2005

ZPD 2V7B...ZPD 62B

Breakdown characteristics
T_j = constant (pulsed)

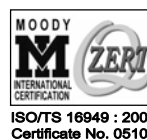


Breakdown characteristics
T_j = constant (pulsed)



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 22/07/2005