

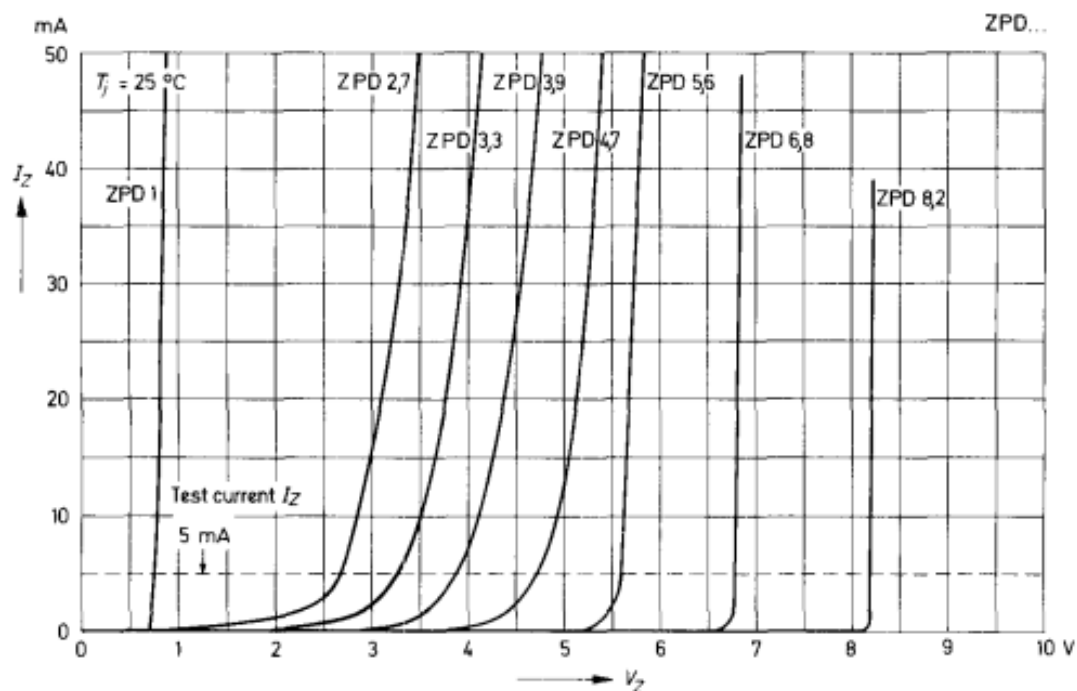
## ZPD 1... ZPD 51 (500 mW, 5%)

Type	Zener voltage 1)	Dynamic resistance		Temp. coeff. of Zener volt.	Reverse voltage	Admissible Zener current 2)	
	@ $I_Z = 5 \text{ mA}$	@ $I_Z = 5 \text{ mA}$ $f = 1 \text{ kHz}$	@ $I_Z = 1 \text{ mA}$ $f = 1 \text{ kHz}$	@ $I_Z = 5 \text{ mA}$	@ $I_R = 100 \text{ nA}$ $V_R \text{ V}$	@ $T_{amb} = 45 \text{ °C}$	@ $T_{amb} = 25 \text{ °C}$
	$V_Z \text{ V}$	$r_{zj} \Omega$	$r_{zj} \Omega$	$\alpha_{VZ} 10^{-4}/\text{°C}$		$I_Z \text{ mA}$	$I_Z \text{ mA}$
ZPD 1 <sup>3)</sup>	0.7...0.8	6.5 (<8)	<50	-26...-23	-	280	340
ZPD 2,7	2.5...2.9	75 (<83)	<500	-9...-4	-	135	160
ZPD 3	2.8...3.2	80 (<95)	<500	-9...-3	-	117	140
ZPD 3,3	3.1...3.5	80 (<95)	<500	-8...-3	-	109	130
ZPD 3,6	3.4...3.8	80 (<95)	<500	-8...-3	-	101	120
ZPD 3,9	3.7...4.1	80 (<95)	<500	-7...-3	-	92	110
ZPD 4,3	4.0...4.6	80 (<95)	<500	-6...-1	-	85	100
ZPD 4,7	4.4...5.0	70 (<78)	<500	-5...+2	-	76	90
ZPD 5,1	4.8...5.4	30 (<60)	<480	-3...+4	>0.8	67	80
ZPD 5,6	5.2...6.0	10 (<40)	<400	-2...+6	>1	59	70
ZPD 6,2	5.8...6.6	4.8 (<10)	<200	-1...+7	>2	54	64
ZPD 6,8	6.4...7.2	4.5 (<8)	<150	+2...+7	>3	49	58
ZPD 7,5	7.0...7.9	4 (<7)	<50	+3...+7	>5	44	53
ZPD 8,2	7.7...8.7	4.5 (<7)	<50	+4...+7	>6	40	47
ZPD 9,1	8.5...9.6	4.8 (<10)	<50	+5...+8	>7	36	43
ZPD 10	9.4...10.6	5.2 (<15)	<70	+5...+8	>7.5	33	40
ZPD 11	10.4...11.6	6 (<20)	<70	+5...+9	>8.5	30	36
ZPD 12	11.4...12.7	7 (<20)	<90	+6...+9	>9	28	32
ZPD 13	12.4...14.1	9 (<25)	<110	+7...+9	>10	25	29
ZPD 15	13.8...15.6	11 (<30)	<110	+7...+9	>11	23	27
ZPD 16	15.3...17.1	13 (<40)	<170	+8...+9.5	>12	20	24
ZPD 18	16.8...19.1	18 (<50)	<170	+8...+9.5	>14	18	21
ZPD 20	18.8...21.2	20 (<50)	<220	+8...+10	>15	17	20
ZPD 22	20.8...23.3	25 (<55)	<220	+8...+10	>17	16	18
ZPD 24	22.8...25.6	28 (<80)	<220	+8...+10	>18	13	16
ZPD 27	25.1...28.9	30 (<80)	<250	+8...+10	>20	12	14
ZPD 30	28...32	35 (<80)	<250	+8...+10	>22.5	10	13
ZPD 33	31...35	40 (<80)	<250	+8...+10	>25	9	12
ZPD 36	34...38	40 (<90)	<250	+8...+10	>27	9	11
ZPD 39	37...41	50 (<90)	<300	+10...+12	>29	8	10
ZPD 43	40...46	60 (<100)	<700	+10...+12	>32	7	9
ZPD 47	44...50	70 (<100)	<750	+10...+12	>35	6	8
ZPD 51	48...54	70 (<100)	<750	+10...+12	>38	6	8

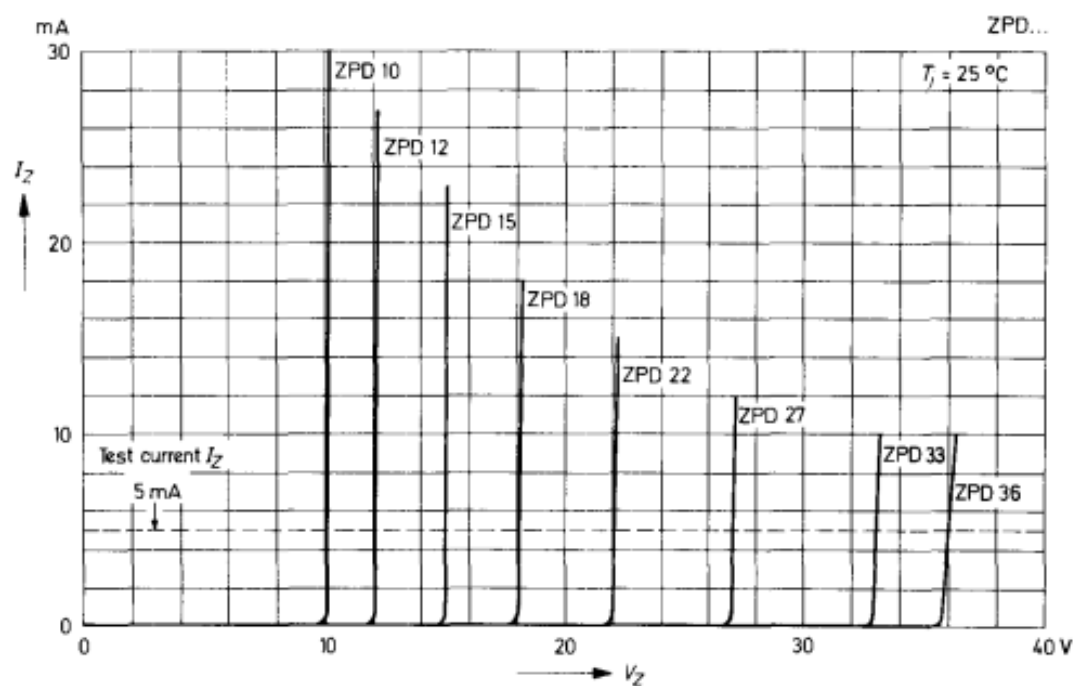
Notes see previous page.

# ZPD 1 ... ZPD 51 (500 mW, 5%)

**Breakdown characteristics**  
@  $T_j = \text{constant}$  (pulsed)

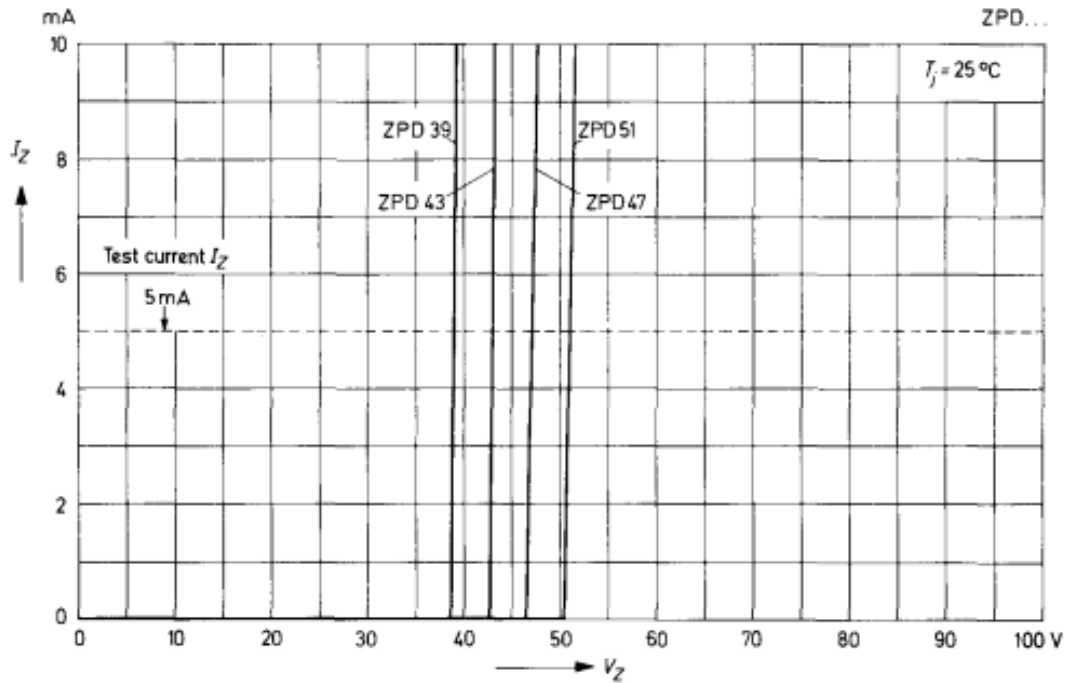


**Breakdown characteristics**  
@  $T_j = \text{constant}$  (pulsed)

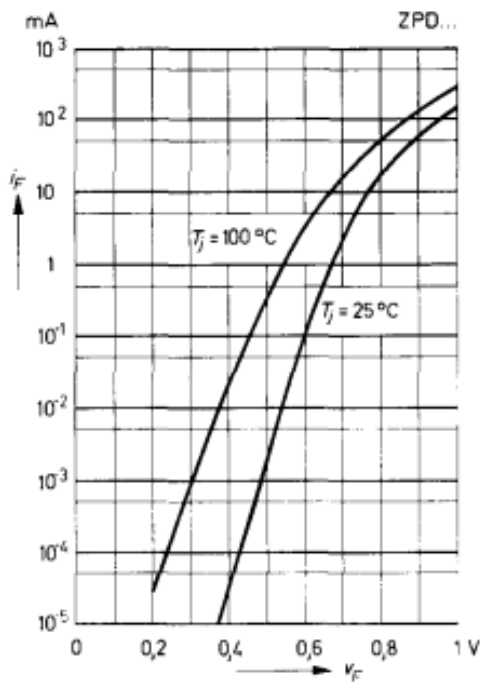


# ZPD 1 ... ZPD 51 ( 500 mW, 5%)

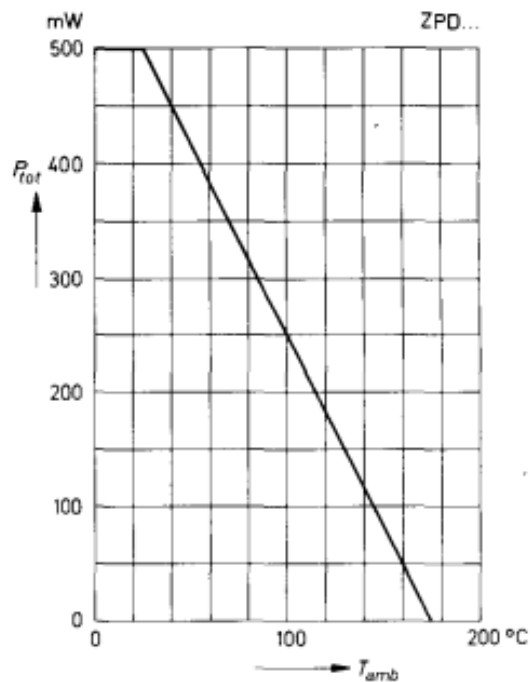
## Breakdown characteristics @ $T_j = \text{constant}$ (pulsed)



## Forward characteristics

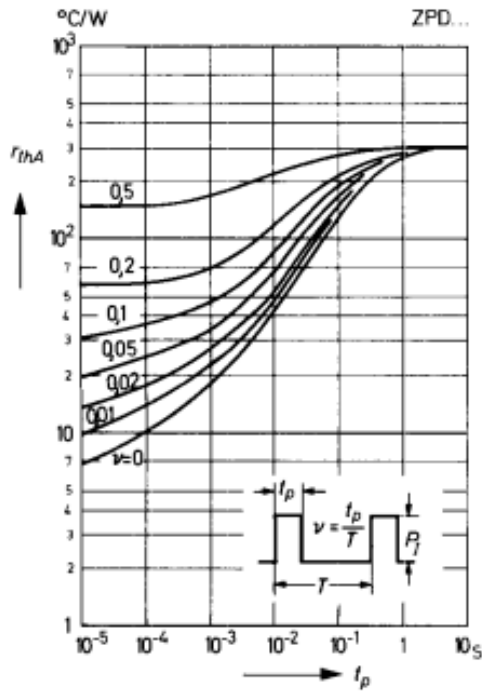


## Admissible power dissipation versus ambient temperature (see note 2) on page 142)

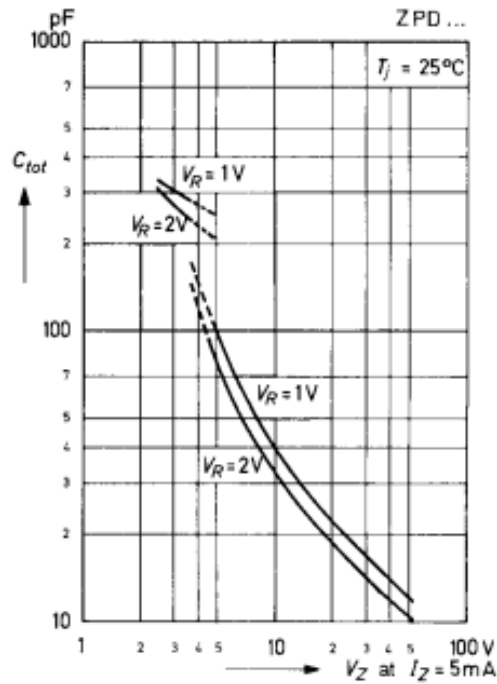


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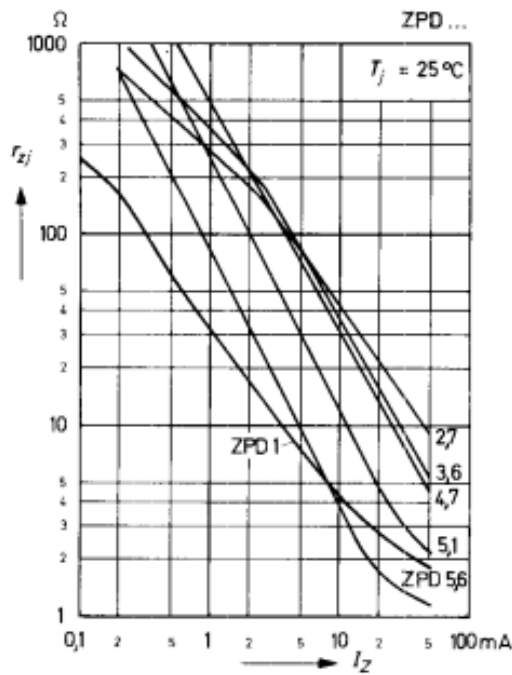
**Pulse thermal resistance versus pulse duration**  
(see note 2) on page 142)



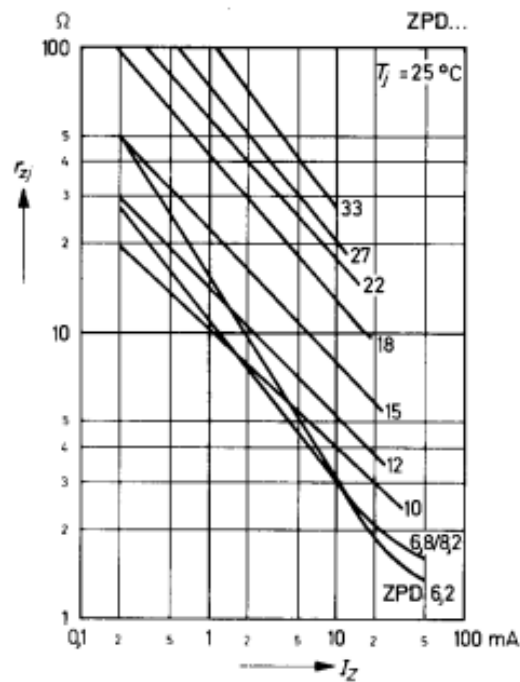
**Capacitance versus Zener voltage**



**Dynamic resistance versus Zener current**

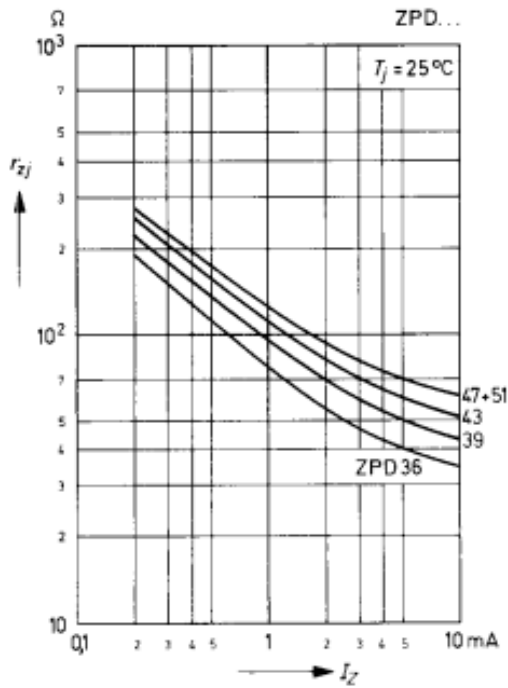


**Dynamic resistance versus Zener current**

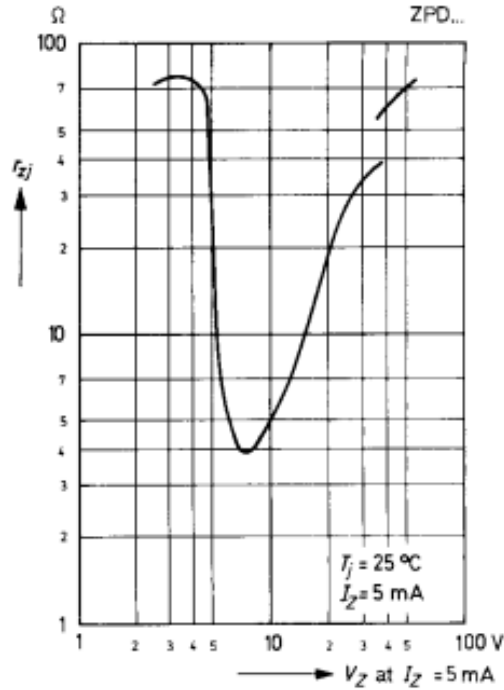


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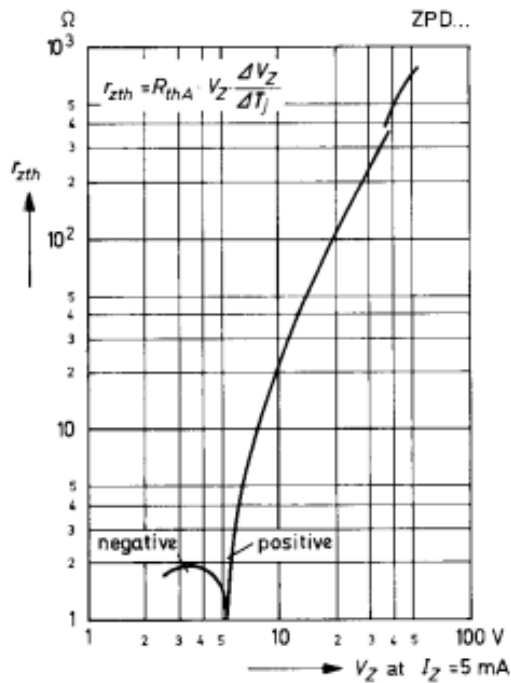
**Dynamic resistance versus Zener current**



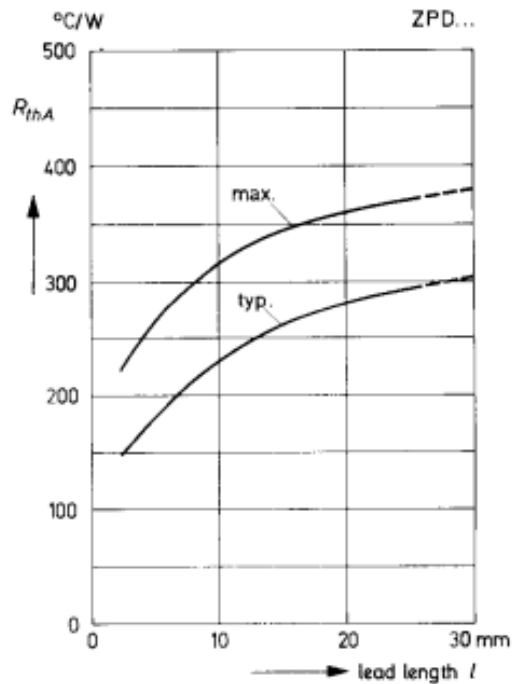
**Dynamic resistance versus Zener voltage**



**Thermal differential resistance versus Zener voltage**  
(see note 2) on page 142)

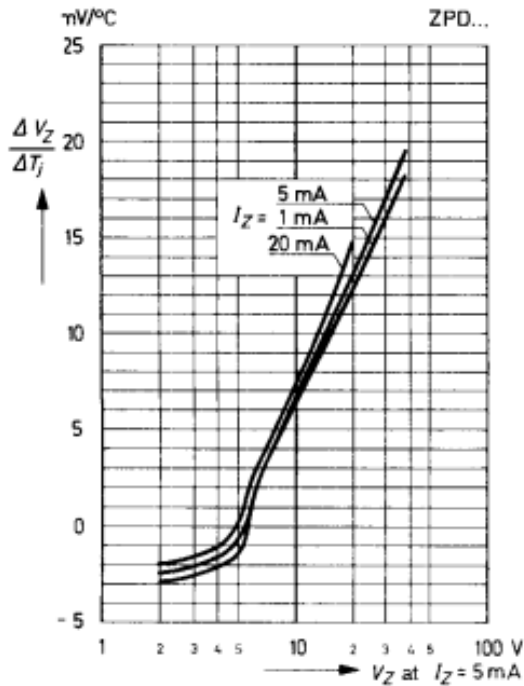


**Thermal resistance versus lead length**

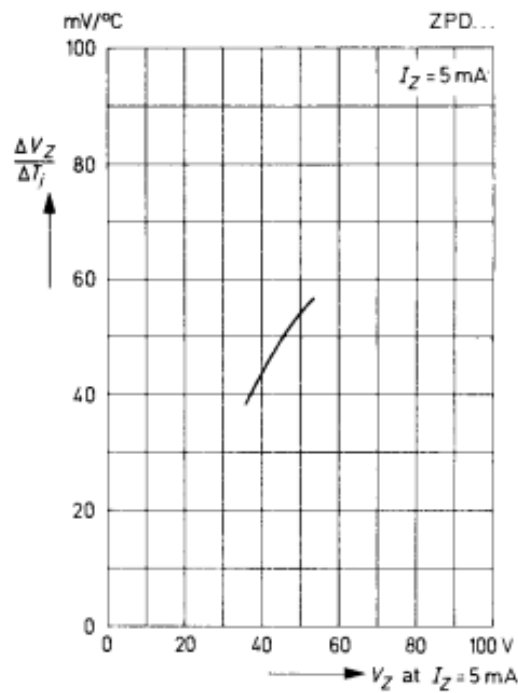


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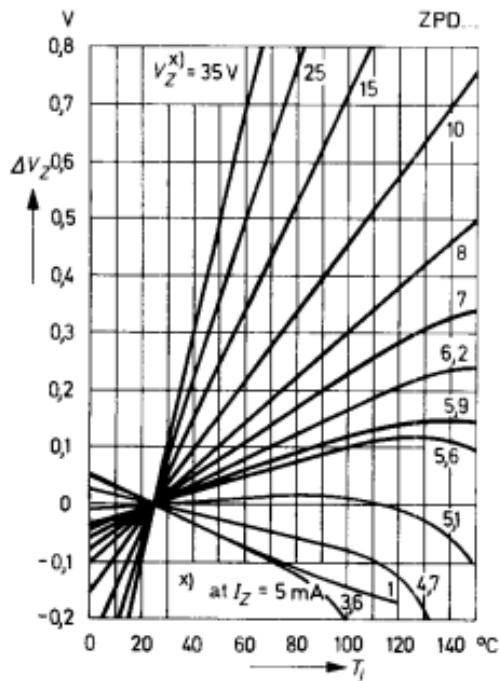
**Temperature dependence of Zener voltage versus Zener voltage**



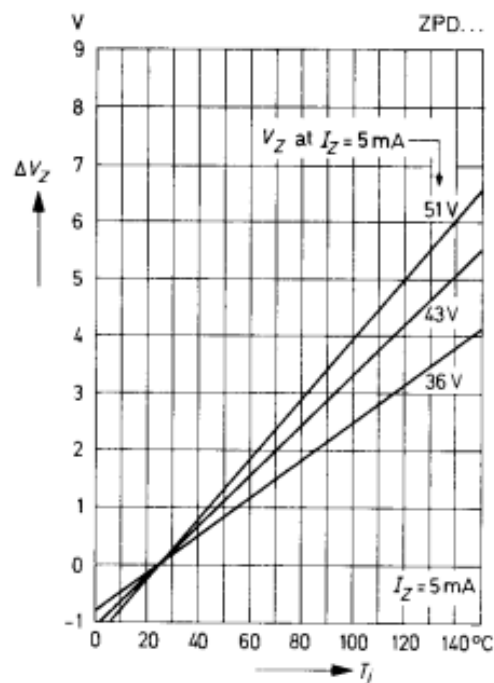
**Temperature dependence of Zener voltage versus Zener voltage**



**Change of Zener voltage versus junction temperature**

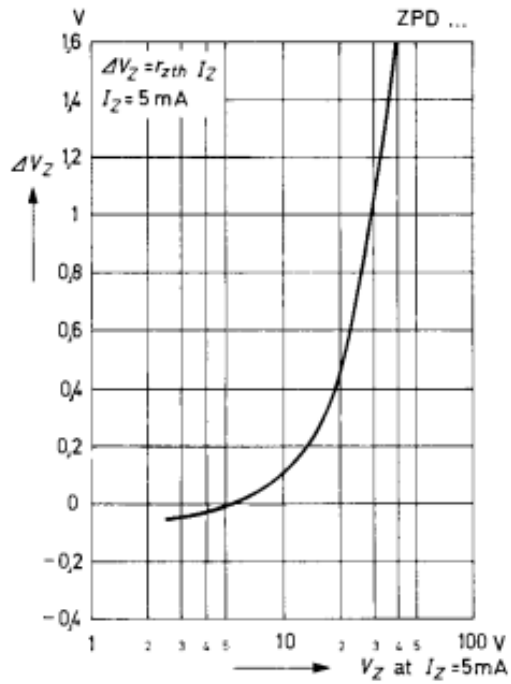


**Change of Zener voltage versus junction temperature**



# ZPD 1 ... ZPD 51 (500 mW, 5%)

**Change of Zener voltage from turn-on up to the point of thermal equilibrium versus Zener voltage**



**Change of Zener voltage from turn-on up to the point of thermal equilibrium versus Zener voltage**

