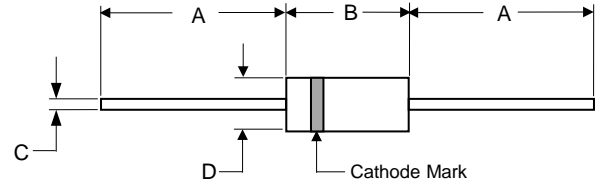


### Features



**RoHS**  
COMPLIANT



DO-35				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.083	---	27.50	---
B	---	0.154	---	3.90
C	---	0.020	---	0.50
D	---	0.075	---	1.90

### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	P <sub>tot</sub>	500 <sup>1)</sup>	mW
Junction Temperature	T <sub>j</sub>	175	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 175	°C

Note:

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

### Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R <sub>thA</sub>	0.3 <sup>1)</sup>	K/mW
Forward Voltage at I <sub>F</sub> = 100 mA	V <sub>F</sub>	1	V

Note:

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

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

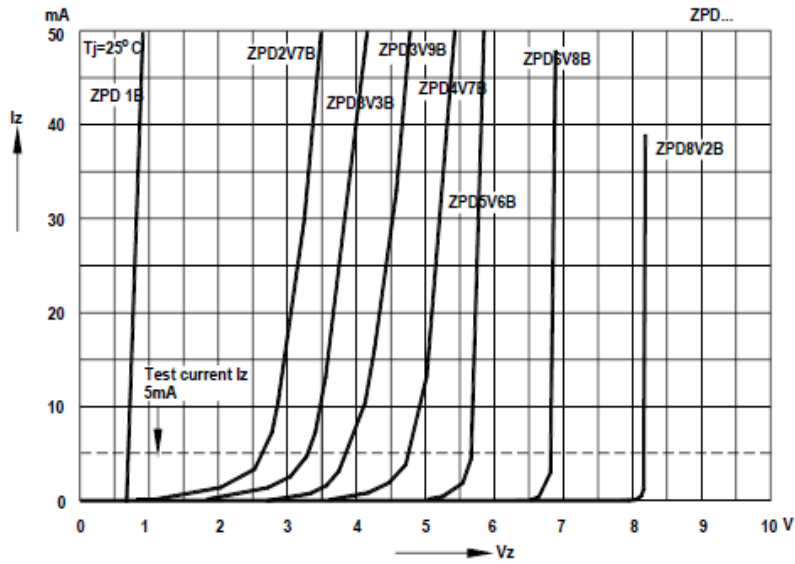
Type	Zener Voltage Range <sup>1)</sup>			Dynamic Resistance			Min. Reverse Voltage V <sub>R</sub> (V) at I <sub>R</sub> = 100 nA	Admissible Zener Current <sup>2)</sup>	
	V <sub>Znom</sub>	V <sub>ZT</sub>	at I <sub>ZT</sub>	Z <sub>ZT</sub>	Z <sub>ZK</sub>	at I <sub>ZK</sub>		at T <sub>a</sub> = 45 °C	at T <sub>a</sub> = 25 °C
	(V)	(V)	(mA)	Max.(Ω)	Max.(Ω)	(mA)		I <sub>Z</sub> (mA)	I <sub>Z</sub> (mA)
ZPD2V7B	2.7	2.65...2.75	5	83	500	1	-	135	160
ZPD3V0B	3	2.94...3.06	5	95	500	1	-	117	140
ZPD3V3B	3.3	3.23...3.37	5	95	500	1	-	109	130
ZPD3V6B	3.6	3.53...3.67	5	95	500	1	-	101	120
ZPD3V9B	3.9	3.82...3.98	5	95	500	1	-	92	110
ZPD4V3B	4.3	4.21...4.39	5	95	500	1	-	85	100
ZPD4V7B	4.7	4.61...4.79	5	78	500	1	-	76	90
ZPD5V1B	5.1	5...5.2	5	60	480	1	0.8	67	80
ZPD5V6B	5.6	5.49...5.71	5	40	400	1	1	59	70
ZPD6V2B	6.2	6.08...6.32	5	10	200	1	2	54	64
ZPD6V8B	6.8	6.66...6.94	5	8	150	1	3	49	58
ZPD7V5B	7.5	7.35...7.65	5	7	50	1	5	44	53
ZPD8V2B	8.2	8.04...8.36	5	7	50	1	6	40	47
ZPD9V1B	9.1	8.92...9.28	5	10	50	1	7	36	43
ZPD10B	10	9.8...10.2	5	15	70	1	7.5	33	40
ZPD11B	11	10.8...11.2	5	20	70	1	8.5	30	36
ZPD12B	12	11.8...12.2	5	20	90	1	9	28	32
ZPD13B	13	12.7...13.3	5	25	110	1	10	25	29
ZPD15B	15	14.7...15.3	5	30	110	1	11	23	27
ZPD16B	16	15.7...16.3	5	40	170	1	12	20	24
ZPD18B	18	17.6...18.4	5	50	170	1	14	18	21
ZPD20B	20	19.6...20.4	5	50	220	1	15	17	20
ZPD22B	22	21.6...22.4	5	55	220	1	17	16	18
ZPD24B	24	23.5...24.5	5	80	220	1	18	13	16
ZPD27B	27	26.5...27.5	5	80	250	1	20	12	14
ZPD30B	30	29.4...30.6	5	80	250	1	22.5	10	13
ZPD33B	33	32.3...33.7	5	80	250	1	25	9	12
ZPD36B	36	35.3...36.7	5	90	250	1	27	9	11
ZPD39B	39	38.2...39.8	5	90	300	1	29	8	10
ZPD43B	43	42.1...43.9	5	100	700	1	32	7	9.2
ZPD47B	47	46.1...47.9	5	100	750	1	35	6	8.5
ZPD51B	51	50...52	5	100	750	1	38	6	7.8
ZPD56B	56	54.9...57.1	2.5	135	1000	0.5	42	5.2	7.1
ZPD62B	62	60.8...63.2	2.5	150	1000	0.5	47	4.8	6.4
ZPD68B	68	66.6...69.4	2.5	200	1000	0.5	51	4.1	5.8
ZPD75B	75	73.5...76.5	2.5	250	1500	0.5	55	3.9	5.3

Note:

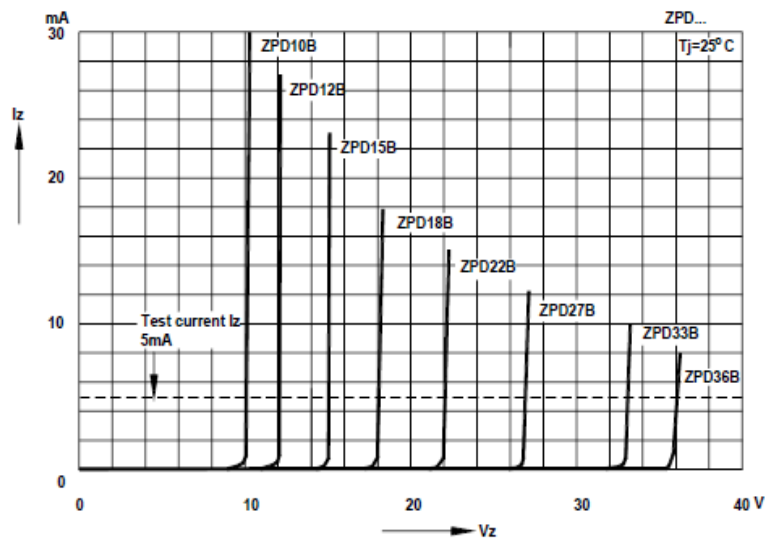
- 1) Tested with pulses t<sub>p</sub> = 20 ms.
- 2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

### Ratings and Characteristic Curves

Breakdown characteristics  
 $T_J = \text{constant (pulsed)}$



Breakdown characteristics  
 $T_J = \text{constant (pulsed)}$





## ZPD2V7B THRU ZPD75B *Silicon Epitaxial Planar Zener Diodes*

### Ordering Information

Part No.	Package	Packing Code	Packing
ZPD2V7B THRU ZPD75B	DO-35	A50	5000pcs/Ammo

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