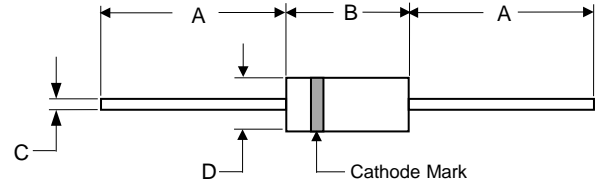


Features



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_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	P _{tot}	500 ¹⁾	mW
Junction Temperature	T _j	175	°C
Storage Temperature Range	T _{stg}	- 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_A=25°C unless otherwise noted)

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R _{thA}	0.3 ¹⁾	K/mW
Forward Voltage at I _F = 100 mA	V _F	1	V

Note:

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

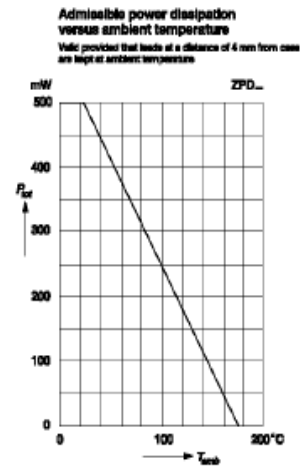
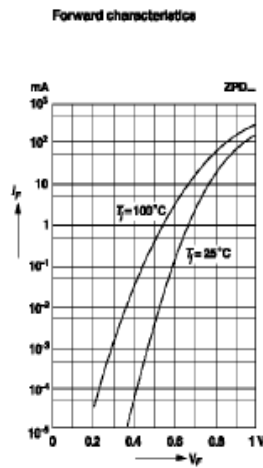
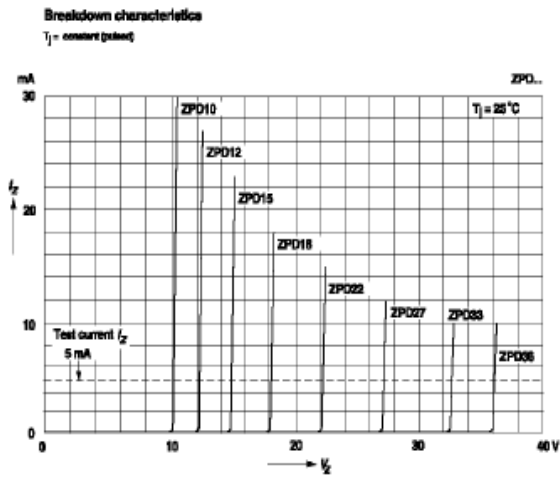
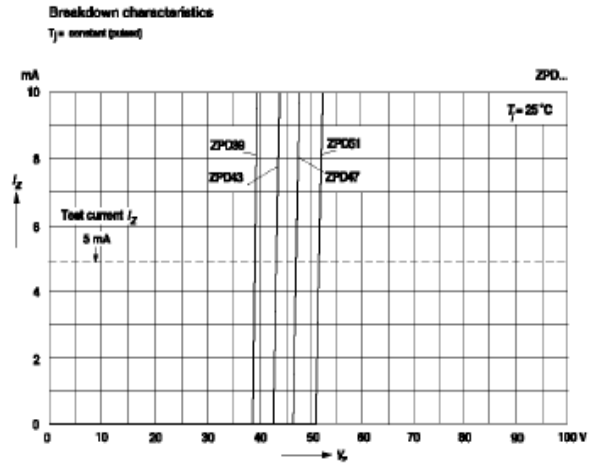
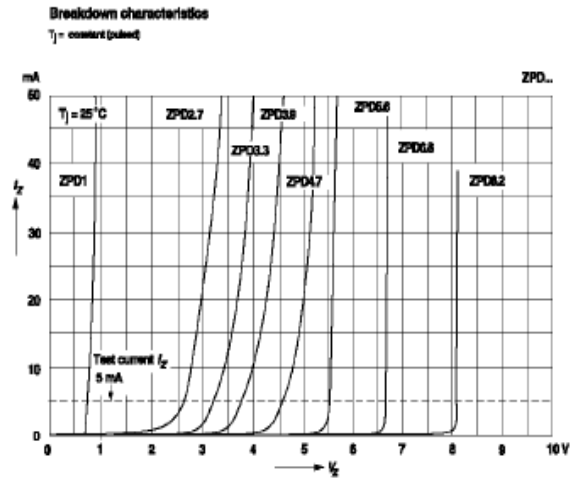
Electrical Characteristics (T_A=25°C unless otherwise noted)

Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Min. Reverse Voltage V _R (V) at I _R = 100 nA	Admissible Zener Current ²⁾	
	V _{Znom}	V _{ZT}	at I _{ZT}	Z _{ZT}	Z _{ZK}	at I _{ZK}		at T _a = 45 °C	at T _a = 25 °C
	(V)	(V)	(mA)	Max.(Ω)	Max.(Ω)	(mA)		I _Z (mA)	I _Z (mA)
ZPD1 ³⁾	-	0.7...0.8	5	8	50	1	-	280	340
ZPD2V7	2.7	2.5...2.9	5	83	500	1	-	135	160
ZPD3V0	3	2.8...3.2	5	95	500	1	-	117	140
ZPD3V3	3.3	3.1...3.5	5	95	500	1	-	109	130
ZPD3V6	3.6	3.4...3.8	5	95	500	1	-	101	120
ZPD3V9	3.9	3.7...4.1	5	95	500	1	-	92	110
ZPD4V3	4.3	4...4.6	5	95	500	1	-	85	100
ZPD4V7	4.7	4.4...5	5	78	500	1	-	76	90
ZPD5V1	5.1	4.8...5.4	5	60	480	1	0.8	67	80
ZPD5V6	5.6	5.2...6	5	40	400	1	1	59	70
ZPD6V2	6.2	5.8...6.6	5	10	200	1	2	54	64
ZPD6V8	6.8	6.4...7.2	5	8	150	1	3	49	58
ZPD7V5	7.5	7...7.9	5	7	50	1	5	44	53
ZPD8V2	8.2	7.7...8.7	5	7	50	1	6	40	47
ZPD9V1	9.1	8.5...9.6	5	10	50	1	7	36	43
ZPD10	10	9.4...10.6	5	15	70	1	7.5	33	40
ZPD11	11	10.4...11.6	5	20	70	1	8.5	30	36
ZPD12	12	11.4...12.7	5	20	90	1	9	28	32
ZPD13	13	12.4...14.1	5	25	110	1	10	25	29
ZPD15	15	13.8...15.6	5	30	110	1	11	23	27
ZPD16	16	15.3...17.1	5	40	170	1	12	20	24
ZPD18	18	16.8...19.1	5	50	170	1	14	18	21
ZPD20	20	18.8...21.2	5	50	220	1	15	17	20
ZPD22	22	20.8...23.3	5	55	220	1	17	16	18
ZPD24	24	22.8...25.6	5	80	220	1	18	13	16
ZPD27	27	25.1...28.9	5	80	250	1	20	12	14
ZPD30	30	28...32	5	80	250	1	22.5	10	13
ZPD33	33	31...35	5	80	250	1	25	9	12
ZPD36	36	34...38	5	90	250	1	27	9	11
ZPD39	39	37...41	5	90	300	1	29	8	10
ZPD43	43	40...46	5	100	700	1	32	7	9.2
ZPD47	47	44...50	5	100	750	1	35	6	8.5
ZPD51	51	48...54	5	100	750	1	38	6	7.8
ZPD56	56	52...60	2.5	135	1000	0.5	42	5.2	7.1
ZPD62	62	58...66	2.5	150	1000	0.5	47	4.8	6.4
ZPD68	68	64...72	2.5	200	1000	0.5	51	4.1	5.8
ZPD75	75	70...79	2.5	250	1500	0.5	55	3.9	5.3

Notes:

- 1) Tested with pulses t_p = 20 ms.
- 2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.
- 3) The ZPD1 is a silicon diode operated in forward direction. Hence, the subscript of all parameter should be "F" instead of "Z". Connect the cathode terminal to the negative pole.

Ratings and Characteristic Curves





ZPD1 THRU ZPD75

Silicon Epitaxial Planar Zener Diodes

Ordering Information

Part No.	Package	Packing Code	Packing
ZPD1 THRU ZPD75	DO-35	A50	5000pcs/Ammo

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