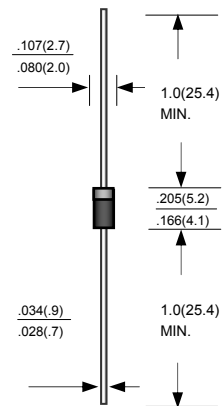


ZY Series

SILICON ZENER DIODES

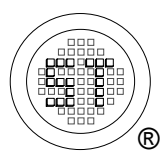


Dimensions in inches and (millimeters)
DO-41 Plastic Package

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

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	2 ¹⁾	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_s	- 55 to + 150	$^{\circ}\text{C}$

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



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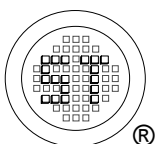
ZY Series

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

Type	Zener Voltage Range ¹⁾			Zener Impedance		Reverse Voltage		Admissible Zener Current at $T_a = 25\text{ }^{\circ}\text{C}$	Temp. Coeff. of Zener Voltage ²⁾
	V_Z		at I_{ZT}	Z_{ZT}	at I_{ZT}	V_R	at I_R		
	Min. (V)	Max. (V)	mA	Max. (Ω)	mA	Min. (V)	μA		αV_Z at I_{ZT}
ZY3.6	3.4	3.8	100	7	100	-	-	440	-7...+2
ZY3.9	3.7	4.1	100	7	100	-	-	410	-7...+2
ZY4.3	4	4.6	100	7	100	-	-	360	-7...+3
ZY4.7	4.4	5	100	7	100	-	-	330	-7...+4
ZY5.1	4.8	5.4	100	5	100	-	-	300	-6...+5
ZY5.6	5.2	6	100	2	100	1.5	1	275	-3...+5
ZY6.2	5.8	6.6	100	2	100	1.5	1	245	-1...+6
ZY6.8	6.4	7.2	100	2	100	2	1	220	0...+7
ZY7.5	7	7.9	100	2	100	2	1	200	0...+7
ZY8.2	7.7	8.7	100	2	100	3.5	1	180	+3...+8
ZY9.1	8.5	9.6	50	4	50	7.4	1	165	+3...+8
ZY10	9.4	10.6	50	4	50	8.2	1	145	+5...+9
ZY11	10.4	11.6	50	7	50	9.2	1	135	+5...+10
ZY12	11.4	12.7	50	7	50	10	1	120	+5...+10
ZY13	12.4	14.1	50	10	50	10.7	1	110	+5...+10
ZY15	13.8	15.6	50	10	50	12	1	98	+5...+10
ZY16	15.3	17.1	25	15	25	13.3	1	90	+6...+11
ZY18	16.8	19.1	25	15	25	14.7	1	80	+6...+11
ZY20	18.8	21.2	25	15	25	16.5	1	72	+6...+11
ZY22	20.8	23.3	25	15	25	18.3	1	66	+6...+11
ZY24	22.8	25.6	25	15	25	20.1	1	60	+6...+11
ZY27	25.1	28.9	25	15	25	22.5	1	53	+6...+11
ZY30	28	32	25	15	25	25.1	1	48	+6...+11
ZY33	31	35	25	15	25	27.8	1	44	+6...+11
ZY36	34	38	10	40	10	30.2	1	40	+6...+11
ZY39	37	41	10	40	10	32.9	1	37	+6...+11
ZY43	40	46	10	45	10	35.6	1	33	+7...+12
ZY47	44	50	10	45	10	39.2	1	30	+7...+12
ZY51	48	54	10	60	10	42.8	1	27	+7...+12
ZY56	52	60	10	60	10	47.3	1	25	+7...+12
ZY62	58	66	10	80	10	51.7	1	21	+8...+13
ZY68	64	72	10	80	10	57.1	1	20	+8...+13
ZY75	70	79	10	100	10	63.2	1	18	+8...+13
ZY82	77	88	10	100	10	68.6	1	16	+8...+13
ZY91	85	96	5	200	5	75.7	1	15	+9...+13
ZY100	94	106	5	200	5	83.7	1	13	+9...+13
ZY110	104	116	5	250	5	92.6	1	12	+9...+13
ZY120	114	127	5	250	5	101.6	1	11	+9...+13
ZY130	124	141	5	300	5	110.5	1	10	+9...+13
ZY150	138	156	5	300	5	123	1	9	+9...+13
ZY160	153	171	5	350	5	136	1	8.5	+9...+13
ZY180	168	191	5	350	5	149	1	8	+9...+13
ZY200	188	212	5	350	5	167	1	7.5	+9...+13

¹⁾ Tested with pulses $t_p = 5\text{ ms}$.

²⁾ Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



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ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 21/04/2008 F E

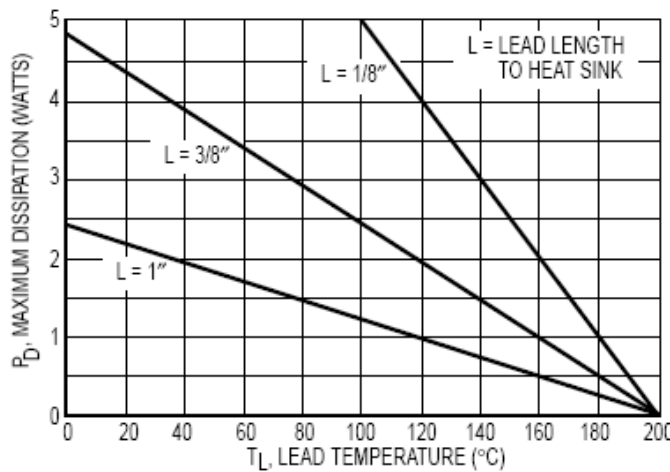


Figure 1. Power Temperature Derating Curve

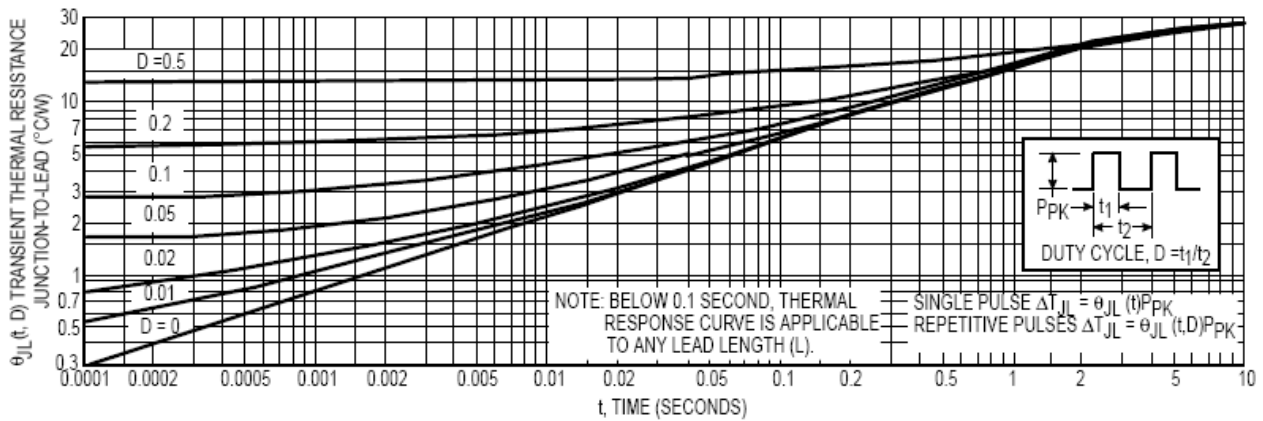


Figure 2. Typical Thermal Response L, Lead Length = 3/8 Inch

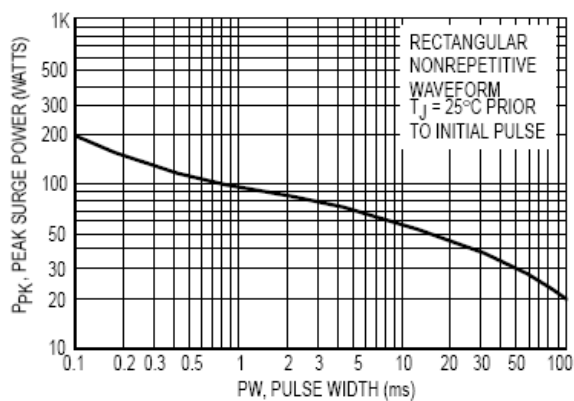


Figure 3. Maximum Surge Power

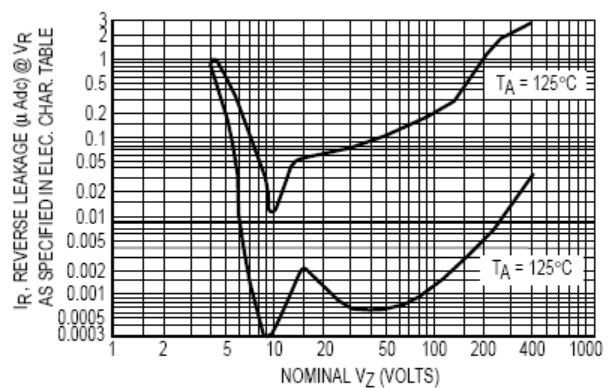
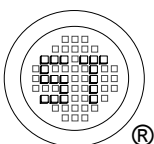


Figure 4. Typical Reverse Leakage



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