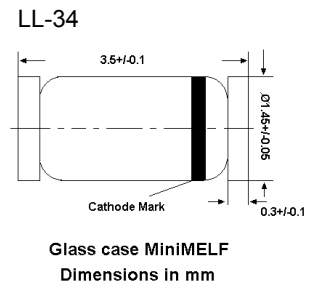


ZGD Series

Surface Mount Silicon Zener Diode



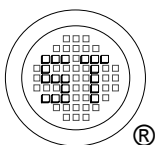
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	1	W
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_s	- 50 to + 175	$^\circ\text{C}$

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

Type	Zener Voltage Range ¹⁾			Max. Dynamic Resistance				Max. Reverse Current		Max. Zener Current
	V_Z		at I_{ZT}	Z_{ZT}	at I_{ZT}	Z_{ZK}	at I_{ZK}	V	at V_R	I_{ZM}
	Min. (V)	Max. (V)	mA	Ω	mA	Ω	mA	μA	V	mA
ZGD3V0	2.8	3.2	5	95	5	-	-	150	1	275
ZGD3V3	3.1	3.5	5	95	5	-	-	150	1	275
ZGD3V6	3.4	3.8	5	95	5	-	-	100	1	252
ZGD3V9	3.7	4.1	5	95	5	-	-	100	1	244
ZGD4V3	4	4.6	5	95	5	-	-	50	1	217
ZGD4V7	4.4	5	5	78	5	1400	1	10	1	200
ZGD5V1	4.8	5.4	5	60	5	700	1	1	0.5	185
ZGD5V6	5.2	6	5	40	5	500	1	1	1	167
ZGD6V2	5.8	6.6	5	11	5	300	1	1	1.5	152
ZGD6V8	6.4	7.2	5	10	5	300	1	1	2	139
ZGD7V5	7	7.9	5	8	5	100	1	0.5	3.5	127
ZGD8V2	7.7	8.7	5	10	5	50	1	0.5	5	115
ZGD9V1	8.5	9.6	5	11	5	50	1	0.5	6	104
ZGD10	9.4	10.6	5	15	5	70	1	0.5	7	94
ZGD11	10.4	11.6	5	20	5	70	1	0.5	7	86
ZGD12	11.4	12.7	5	20	5	90	1	0.5	8	79
ZGD13	12.4	14.1	5	25	5	110	1	0.5	9	71
ZGD15	13.8	15.6	5	30	5	110	1	0.5	10	64
ZGD16	15.3	17.1	5	40	5	170	1	0.5	11	58
ZGD18	16.8	19.1	5	50	5	170	1	0.5	12	52
ZGD20	18.8	21.2	5	50	5	220	1	0.5	13	47
ZGD22	20.8	23.3	5	55	5	220	1	0.5	15	43

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



SEMTECH ELECTRONICS LTD.

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



ISO/TS 16949 : 2002 Certificate No. 05103
 ISO 14001:2004 Certificate No. 7116
 ISO 9001:2000 Certificate No. 0506098

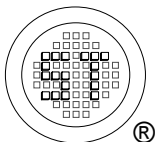
Dated : 29/08/2008

ZGD Series

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

Type	Zener Voltage Range ¹⁾			Max. Dynamic Resistance				Max. Reverse Current		Max. Zener Current
	V_Z		at I_{ZT}	Z_{ZT}	at I_{ZT}	Z_{ZK}	at I_{ZK}	V	at V_R	I_{ZM}
	Min. (V)	Max. (V)	mA	Ω	mA	Ω	mA	μA	V	mA
ZGD24	22.8	25.6	5	80	5	220	1	0.5	16	39
ZGD27	25.1	28.9	5	80	5	250	1	0.5	18	35
ZGD30	28	32	5	80	5	250	1	0.5	20	31
ZGD33	31	35	5	80	5	250	1	0.5	22	29
ZGD36	34	38	5	90	5	300	1	0.5	24	26
ZGD39	37	41	5	90	5	500	1	0.5	26	24
ZGD43	40	46	5	100	5	700	1	0.5	28	22
ZGD47	44	50	5	100	5	750	1	0.5	31	20
ZGD51	48	54	5	100	5	750	1	0.5	34	19
ZGD56	52	60	5	100	5	750	1	0.5	36	17
ZGD62	58	66	5	110	5	750	1	0.5	41	15
ZGD68	64	72	5	140	5	750	1	0.5	45	14
ZGD75	70	79	5	150	5	750	1	0.5	49	13

¹⁾ Tested with pulses $t_p = 20$ ms.



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