

Zibo Seno Electronic Engineering Co., Ltd.



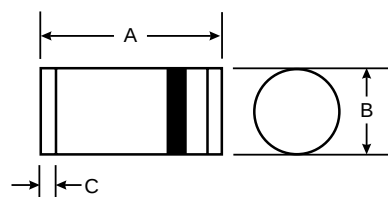
LL55C2V4-LL55C75



500mW ZENER DIODE

Features

Very Sharp Reverse Characteristic
Low Reverse Current Level
Very High Stability
Low Noise



Mechanical Data

Case: LL-34 / MiniMELF, Glass
Terminals: Solderable per MIL-STD-202, Method 208
Polarity: Cathode Band
Approx. Weight: 0.13 grams

- Lead Free: For RoHS / Lead Free Version

MiniMELF		
Dim	Min	Max
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit	Test Condition
Power Dissipation	P_d	500	mW	Lead length = 4.0mm, $T_L = 25^\circ\text{C}$
Zener Current	I_Z	P_d/V_Z	mA	
Thermal Resistance, Junction to Ambient Air	R_{JA}	300	K/W	Lead length = 4.0mm, $T_L = \text{constant}$
Forward Voltage	V_F	1.5	V	$I_F = 200\text{mA}$
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +175	$^\circ\text{C}$	

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Electrical Characteristics @ T_A = 25°C unless otherwise specified

Type Number	Nominal Zener Voltage		Zener Voltage Range	Zener Impedance	Zener Impedance		Leakage Current @ V _R			Temperature Coefficient
	V _Z @ I _{ZT}		V _Z @ I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZT} @ I _{ZK}		I _R @ T=25°C	I _R @ T=150°C	V _R	
	(V)	(mA)	(V)	(Ω)	(Ω)	(mA)	(μ A)	(μ A)	(V)	
LL55C2V4	2.4	5.0	2.28 to 2.56	< 85	< 600	1.0	< 50	< 100	1.0	-0.09 to -0.06
LL55C2V7	2.7	5.0	2.5 to 2.9	< 85	< 600	1.0	< 10	< 50	1.0	-0.09 to -0.06
LL55C3V0	3.0	5.0	2.8 to 3.2	< 85	< 600	1.0	< 4.0	< 40	1.0	-0.08 to -0.05
LL55C3V3	3.3	5.0	3.1 to 3.5	< 85	< 600	1.0	< 2.0	< 40	1.0	-0.08 to -0.05
LL55C3V6	3.6	5.0	3.4 to 3.8	< 85	< 600	1.0	< 2.0	< 40	1.0	-0.08 to -0.05
LL55C3V9	3.9	5.0	3.7 to 4.1	< 85	< 600	1.0	< 2.0	< 40	1.0	-0.08 to -0.05
LL55C4V3	4.3	5.0	4.0 to 4.6	< 75	< 600	1.0	< 1.0	< 20	1.0	-0.06 to -0.03
LL55C4V7	4.7	5.0	4.4 to 5.0	< 60	< 600	1.0	< 0.5	< 10	1.0	-0.05 to +0.02
LL55C5V1	5.1	5.0	4.8 to 5.4	< 35	< 550	1.0	< 0.1	< 2.0	1.0	-0.02 to +0.02
LL55C5V6	5.6	5.0	5.2 to 6.0	< 25	< 450	1.0	< 0.1	< 2.0	1.0	-0.05 to +0.05
LL55C6V2	6.2	5.0	5.8 to 6.6	< 10	< 200	1.0	< 0.1	< 2.0	2.0	0.03 to 0.06
LL55C6V8	6.8	5.0	6.4 to 7.2	< 8.0	< 150	1.0	< 0.1	< 2.0	3.0	0.03 to 0.07
LL55C7V5	7.5	5.0	7.0 to 7.9	< 7.0	< 50	1.0	< 0.1	< 2.0	5.0	0.03 to 0.07
LL55C8V2	8.2	5.0	7.7 to 8.7	< 7.0	< 50	1.0	< 0.1	< 2.0	6.2	0.03 to 0.08
LL55C9V1	9.1	5.0	8.5 to 9.6	< 10	< 50	1.0	< 0.1	< 2.0	6.8	0.03 to 0.09
LL55C10	10	5.0	9.4 to 10.6	< 15	< 70	1.0	< 0.1	< 2.0	7.5	0.03 to 0.10
LL55C11	11	5.0	10.4 to 11.6	< 20	< 70	1.0	< 0.1	< 2.0	8.2	0.03 to 0.11
LL55C12	12	5.0	11.4 to 12.7	< 20	< 90	1.0	< 0.1	< 2.0	9.1	0.03 to 0.11
LL55C13	13	5.0	12.4 to 14.1	< 26	< 110	1.0	< 0.1	< 2.0	10	0.03 to 0.11
LL55C15	15	5.0	13.8 to 15.6	< 30	< 110	1.0	< 0.1	< 2.0	11	0.03 to 0.11
LL55C16	16	5.0	15.3 to 17.1	< 40	< 170	1.0	< 0.1	< 2.0	12	0.03 to 0.11
LL55C18	18	5.0	16.8 to 19.1	< 50	< 170	1.0	< 0.1	< 2.0	13	0.03 to 0.11
LL55C20	20	5.0	18.8 to 21.2	< 55	< 220	1.0	< 0.1	< 2.0	15	0.03 to 0.11
LL55C22	22	5.0	20.8 to 23.3	< 55	< 220	1.0	< 0.1	< 2.0	16	0.04 to 0.12
LL55C24	24	5.0	22.8 to 25.6	< 80	< 220	1.0	< 0.1	< 2.0	18	0.04 to 0.12
LL55C27	27	5.0	25.1 to 28.9	< 80	< 220	1.0	< 0.1	< 2.0	20	0.04 to 0.12
LL55C30	30	5.0	28 to 32	< 80	< 220	1.0	< 0.1	< 2.0	22	0.04 to 0.12
LL55C33	33	5.0	31 to 35	< 80	< 220	1.0	< 0.1	< 2.0	24	0.04 to 0.12
LL55C36	36	5.0	34 to 38	< 80	< 220	1.0	< 0.1	< 2.0	27	0.04 to 0.12
LL55C39	39	2.5	37 to 41	< 90	< 500	0.5	< 0.1	< 5.0	30	0.04 to 0.12
LL55C43	43	2.5	40 to 46	< 90	< 600	0.5	< 0.1	< 5.0	33	0.04 to 0.12
LL55C47	47	2.5	44 to 50	< 110	< 700	0.5	< 0.1	< 5	36	0.04 to 0.12
LL55C51	51	2.5	48 to 54	< 125	< 700	0.5	< 0.1	< 10	39	0.04 to 0.12
LL55C56	56	2.5	52 to 60	< 135	< 1000	0.5	< 0.1	< 10	43	0.04 to 0.12
LL55C62	62	2.5	58 to 66	< 150	< 1000	0.5	< 0.1	< 10	47	0.04 to 0.12
LL55C68	68	2.5	64 to 72	< 200	< 1000	0.5	< 0.1	< 10	51	0.04 to 0.12
LL55C75	75	2.5	70 to 79	< 250	< 1500	0.5	< 0.1	< 10	56	0.04 to 0.12

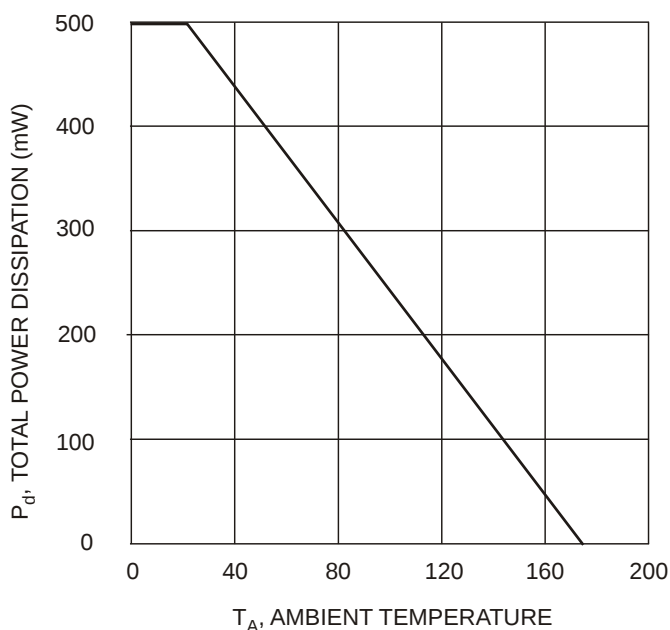


Fig.1, Power Dissipation vs Ambient Temperature

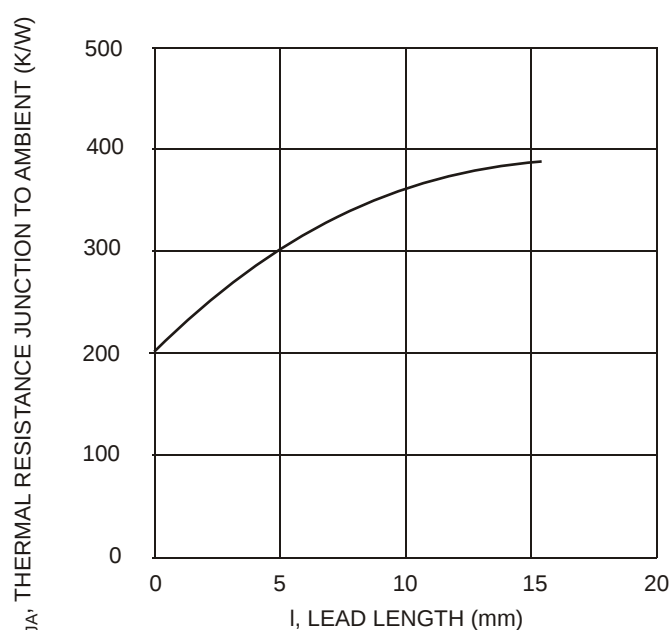


Fig. 2, Thermal Resistance vs Lead Length

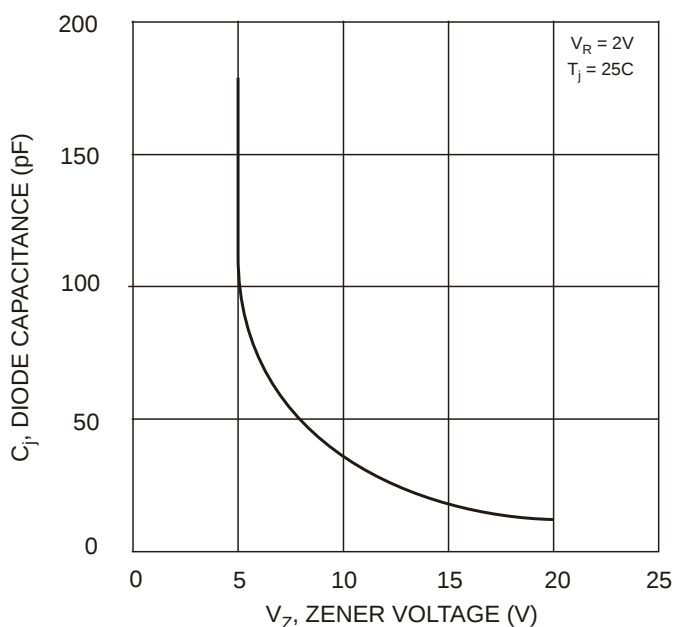


Fig. 3, Diode Capacitance vs Zener Voltage

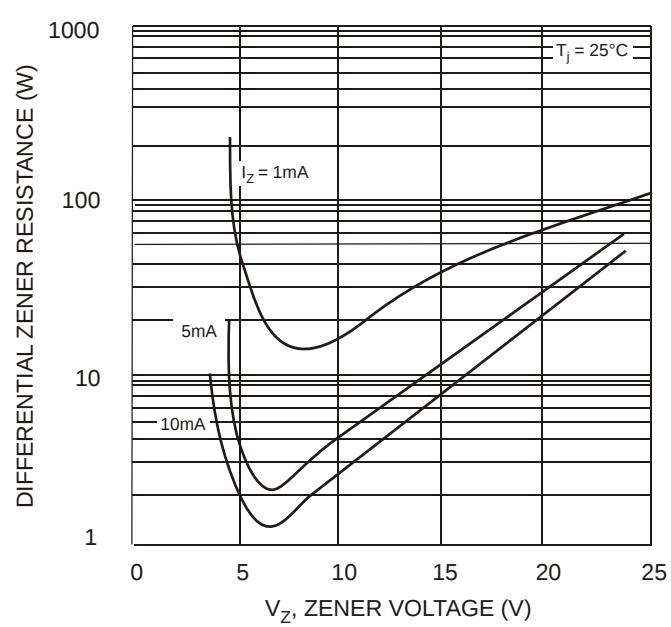


Fig. 4, Differential Zener Impedance