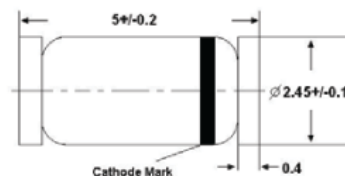


Silicon Planar Power Zener Diodes

LL-41



Glass case MELF
Dimensions in mm

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

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	1.3 ¹⁾	W
Junction Temperature	T_j	200	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 200	$^\circ\text{C}$
¹⁾ Valid provided that electrodes are kept at ambient temperature.			

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

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	130 ¹⁾	K/W
Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	V
¹⁾ Valid provided that electrodes are kept at ambient temperature.			

Characteristics at $T_a = 25\text{ °C}$

Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Current	
	V_{znom}	V_{ZT}	at I_{ZT}	Z_{ZT}	Z_{ZK}	at I_{ZK}	I_R	at V_R
	(V)	(V)	(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max. (μA)	(V)
ZM1.3C2V7	2.7	2.5...2.9	80	20	400	1	150	1
ZM1.3C3V0	3	2.8...3.2	80	20	400	1	100	1
ZM1.3C3V3	3.3	3.1...3.5	70	20	400	1	40	1
ZM1.3C3V6	3.6	3.4...3.8	60	15	500	1	20	1
ZM1.3C3V9	3.9	3.7...4.1	60	15	500	1	10	1
ZM1.3C4V3	4.3	4...4.6	50	13	500	1	3	1
ZM1.3C4V7	4.7	4.4...5	45	13	600	1	3	1
ZM1.3C5V1	5.1	4.8...5.4	45	10	500	1	1	1.5
ZM1.3C5V6	5.6	5.2...6	45	7	400	1	1	2
ZM1.3C6V2	6.2	5.8...6.6	35	4	300	1	1	3
ZM1.3C6V8	6.8	6.4...7.2	35	3.5	300	1	1	4
ZM1.3C7V5	7.5	7...7.9	35	3	200	0.5	1	4.5
ZM1.3C8V2	8.2	7.7...8.7	25	5	200	0.5	1	6.2
ZM1.3C9V1	9.1	8.5...9.6	25	5	200	0.5	1	6.8
ZM1.3C10	10	9.4...10.6	25	7	200	0.5	0.5	7
ZM1.3C11	11	10.4...11.6	20	8	300	0.5	0.5	8.2
ZM1.3C12	12	11.4...12.7	20	9	350	0.5	0.5	9.1
ZM1.3C13	13	12.4...14.1	20	10	400	0.5	0.5	10
ZM1.3C15	15	13.8...15.6	15	15	500	0.5	0.5	11
ZM1.3C16	16	15.3...17.1	15	15	500	0.5	0.5	12
ZM1.3C18	18	16.8...19.1	15	20	500	0.5	0.5	13
ZM1.3C20	20	18.8...21.2	10	24	600	0.5	0.5	15
ZM1.3C22	22	20.8...23.3	10	25	600	0.5	0.5	16
ZM1.3C24	24	22.8...25.6	10	25	600	0.5	0.5	18
ZM1.3C27	27	25.1...28.9	8	30	750	0.25	0.5	20
ZM1.3C30	30	28...32	8	30	1000	0.25	0.5	22
ZM1.3C33	33	31...35	8	35	1000	0.25	0.5	24
ZM1.3C36	36	34...38	8	40	1000	0.25	0.5	27
ZM1.3C39	39	37...41	6	50	1000	0.25	0.5	30
ZM1.3C43	43	40...46	6	50	1000	0.25	0.5	33
ZM1.3C47	47	44...50	4	90	1500	0.25	0.5	36
ZM1.3C51	51	48...54	4	115	1500	0.25	0.5	39
ZM1.3C56	56	52...60	4	120	2000	0.25	0.5	43
ZM1.3C62	62	58...66	4	125	2000	0.25	0.5	47
ZM1.3C68	68	64...72	4	130	2000	0.25	0.5	51
ZM1.3C75	75	70...79	4	135	2000	0.25	0.5	56

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