

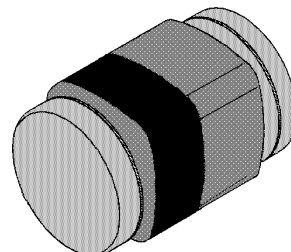
ZMC...UDZB Series

SILICON EPITAXIAL PLANAR ZENER DIODES

Features

- Compact, 2-pin mini-mold type for high-density mounting
- Non-wire bonding structure improves
- High demand voltage range (3.6 V~36 V) is manufactured on high-efficient non-wire bonding production line
- Fits onto SOD-323 / SOT-23 footprints
- Micro Melf package

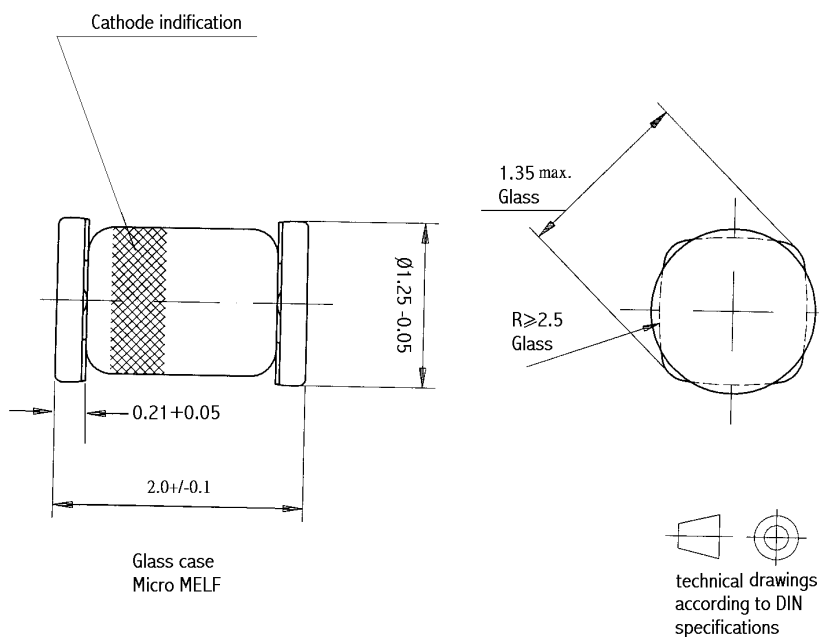
LS-31



Applications

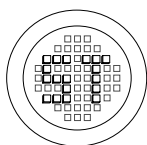
- Constant voltage control

Dimensions in mm



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

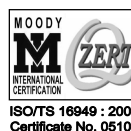
Parameter	Symbol	Value	Unit
Power Dissipation	P	200	mW
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^{\circ}\text{C}$
Operating Temperature Range	T_{opr}	- 55 to + 150	$^{\circ}\text{C}$



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



Dated : 17/05/2006

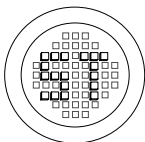
ZMC...UDZB Series

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

Type	Zener Voltage			Operating Resistance		Rising Operating Resistance		Reverse Current	
	V_Z (V)			Z_Z (Ω)		Z_{ZK} (Ω)		I_R (μA)	
	Min.	Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	V_R (V)
ZMC3V6UDZB	3.6	3.845	5	100	5	1000	1	10	1
ZMC3V9UDZB	3.89	4.16	5	100	5	1000	1	5	1
ZMC4V3UDZB	4.17	4.43	5	100	5	1000	1	5	1
ZMC4V7UDZB	4.55	4.75	5	100	5	800	0.5	2	1
ZMC5V1UDZB	4.98	5.2	5	80	5	500	0.5	2	1.5
ZMC5V6UDZB	5.49	5.73	5	60	5	200	0.5	1	2.5
ZMC6V2UDZB	6.06	6.33	5	60	5	100	0.5	1	3
ZMC6V8UDZB	6.65	6.93	5	40	5	60	0.5	0.5	3.5
ZMC7V5UDZB	7.28	7.6	5	30	5	60	0.5	0.5	4
ZMC8V2UDZB	8.02	8.36	5	30	5	60	0.5	0.5	5
ZMC9V1UDZB	8.85	9.23	5	30	5	60	0.5	0.5	6
ZMC10UDZB	9.77	10.21	5	30	5	60	0.5	0.1	7
ZMC11UDZB	10.76	11.22	5	30	5	60	0.5	0.1	8
ZMC12UDZB	11.74	12.24	5	30	5	80	0.5	0.1	9
ZMC13UDZB	12.91	13.49	5	37	5	80	0.5	0.1	10
ZMC15UDZB	14.34	14.98	5	42	5	80	0.5	0.1	11
ZMC16UDZB	15.85	16.51	5	50	5	80	0.5	0.1	12
ZMC18UDZB	17.56	18.35	5	65	5	80	0.5	0.1	13
ZMC20UDZB	19.52	20.39	5	85	5	100	0.5	0.1	15
ZMC22UDZB	21.54	22.47	5	100	5	100	0.5	0.1	17
ZMC24UDZB	23.72	24.78	5	120	5	120	0.5	0.1	19
ZMC27UDZB	26.19	27.53	5	150	5	150	0.5	0.1	21
ZMC30UDZB	29.19	30.69	5	200	5	200	0.5	0.1	23
ZMC33UDZB	32.15	33.79	5	250	5	250	0.5	0.1	25
ZMC36UDZB	35.07	36.87	5	300	5	300	0.5	0.1	27

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

²⁾ The operating resistances (Z_Z , Z_{ZK}) are measured by superimposing a minute alternating current on the regulated current (I_Z).



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Certificate No. 05103



ISO 14001:2004
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