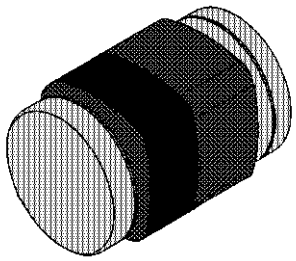
ZMC...UDZB Series

SILICON EPITAXIAL PLANAR ZENER DIODES

LS-31



Features

- Compact, 2-pin mini-mold type for high-density mounting. (UMD2)
- Non-wire bonding structure improves.
- High demand voltage range (3.6V~36V) is manufactured on high-efficient non-wire bonding production line.
- Fits onto SOD 323 / SOT 23 footprints.
- Micro Melf package.
- This series of products can be a substitution of UDZS series.

Applications

- Constant voltage control.

Absolute Maximum Ratings ($T_a = 25^oC$)

	Symbol	Value	Unit
Power Dissipation	P	200	mW
Junction Temperature	T_J	150	^OC
Storage Temperature Range	T_S	-55 to +150	^OC
Operating Temperature	T_{opr}	-55 to +150	^OC

®

РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

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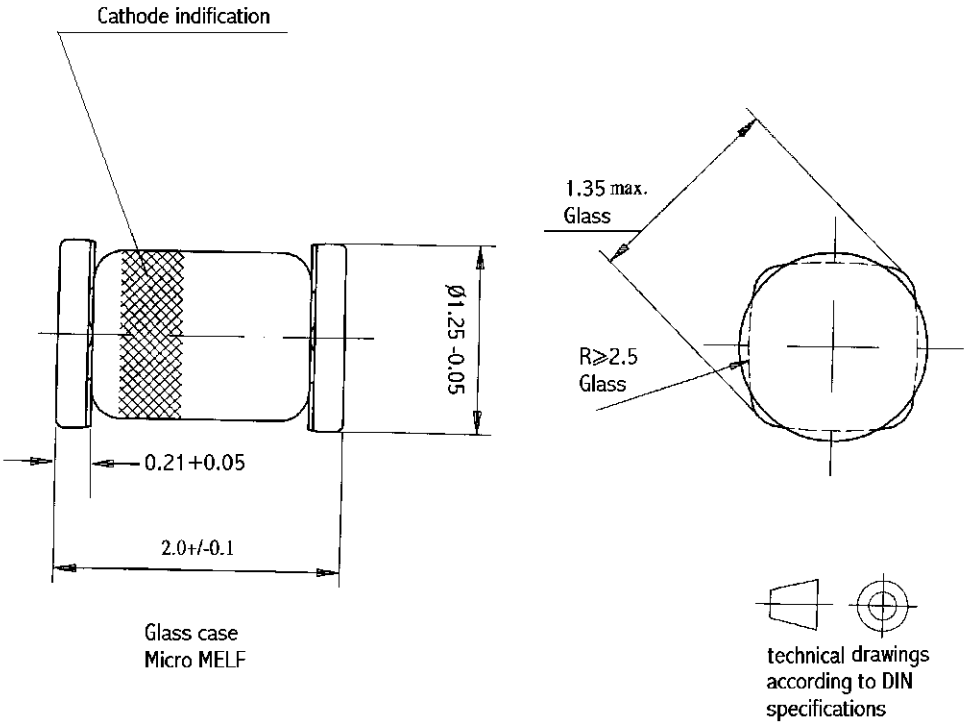
Characteristics at $T_a = 25^oC$

TYPE	Zener Voltage			Operating resistance		Rising operating resistance		Reverse Current	
	V_Z (V)			Z_Z (Ω)		Z_{ZK} (Ω)		I_R (uA)	
	Min.	Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	I_Z (mA)	Max.	V_R (V)
ZMC3.6 UDZB	3.600	3.845	5	100	5	1000	1	10	1
ZMC3.9 UDZB	3.890	4.160	5	100	5	1000	1	5	1
ZMC4.3 UDZB	4.170	4.430	5	100	5	1000	1	5	1
ZMC4.7 UDZB	4.550	4.750	5	100	5	800	0.5	2	1
ZMC5.1 UDZB	4.980	5.200	5	80	5	500	0.5	2	1.5
ZMC5.6 UDZB	5.490	5.730	5	60	5	200	0.5	1	2.5
ZMC6.2 UDZB	6.060	6.330	5	60	5	100	0.5	1	3
ZMC6.8 UDZB	6.650	6.930	5	40	5	60	0.5	0.5	3.5
ZMC7.5 UDZB	7.280	7.600	5	30	5	60	0.5	0.5	4
ZMC8.2 UDZB	8.020	8.360	5	30	5	60	0.5	0.5	5
ZMC9.1 UDZB	8.850	9.230	5	30	5	60	0.5	0.5	6
ZMC10 UDZB	9.770	10.21	5	30	5	60	0.5	0.1	7
ZMC11 UDZB	10.76	11.22	5	30	5	60	0.5	0.1	8
ZMC12 UDZB	11.74	12.24	5	30	5	80	0.5	0.1	9
ZMC13 UDZB	12.91	13.49	5	37	5	80	0.5	0.1	10
ZMC15 UDZB	14.34	14.98	5	42	5	80	0.5	0.1	11
ZMC16 UDZB	15.85	16.51	5	50	5	80	0.5	0.1	12
ZMC18 UDZB	17.56	18.35	5	65	5	80	0.5	0.1	13
ZMC20 UDZB	19.52	20.39	5	85	5	100	0.5	0.1	15
ZMC22 UDZB	21.54	22.47	5	100	5	100	0.5	0.1	17
ZMC24 UDZB	23.72	24.78	5	120	5	120	0.5	0.1	19
ZMC27 UDZB	26.19	27.53	5	150	5	150	0.5	0.1	21
ZMC30 UDZB	29.19	30.69	5	200	5	200	0.5	0.1	23
ZMC33 UDZB	32.15	33.79	5	250	5	250	0.5	0.1	25
ZMC36 UDZB	35.07	36.87	5	300	5	300	0.5	0.1	27

Note 1. Tested with pulses tp = 20 ms.

2. The operating resistances (Zz, Zzk) are measured by superimposing a minute alternating current on the regulated current (Iz).

Dimensions in mm



Glass case
Micro MELF