

DO-41 / LL-41 voltage
stable diode series

Silicon planar
voltage
stabilization
diode

model		* Nominal stabilizing voltage		Maximum dynamic resistance			Maximum reverse leakage current		Maximum , surge current is allowed	Tolerance for maximum , working current	dissipated power
Type		Nominal Zener Voltage @Iz		Maximum Dynamic Resistance			Maximum Reverse Leakage Current @VR		Maximum rge Current @25°C T A	Maximum Zener Current	Power Dissipation @25°C T.
DO-41 Package	MELF Package	Vz	Izr	Rz@Iz	RzJK@zk		R	VR	gSurge)	ZM	Po
		V	mA			mA	mA	V	mA	mA	W
1N4728	ZM4728	3.3	76	10	400	1.0	100	1.0	1380	270	1
1N4729	ZM4729	3.6	69	10	400	1.0	100	1.0	1260	252	
1N4730	ZM4730	3.9	64	9.0	400	1.0	50	1.0	1190	234	
1N4731	ZM4731	4.3	58	9.0	400	1.0	10	1.0	1070	217	
1N4732	ZM4732	4.7	53	8.0	500	1.0	10	1.0	970	193	
1N4733	ZM4733	5.1	49	7.0	550	1.0	10	1.0	890	178	
1N4734	ZM4734	5.6	45	5.0	600	1.0	10	2.0	810	162	
1N4735	ZM4735	6.2	41	2.0	700	1.0	10	3.0	730	146	
1N4736	ZM4736	6.8	37	3.5	700	1.0	10	4.0	660	133	
1N4737	ZM4737	7.5	34	4.0	700	0.5	10	5.0	605	121	
1N4738	ZM4738	8.2	31	4.5	700	0.5	10	6.0	550	110	
1N4739	ZM4739	9.1	28	5.0	700	0.5	10	7.0	500	100	
1N4740	ZM4740	10	25	7.0	700	0.25	10	7.6	454	91	
1N4741	ZM4741	11	23	8.0	700	0.25	5	8.4	414	83	
1N4742	ZM4742	12	21	9.0	700	0.25	5	9.1	380	76	
1N4743	ZM4743	13	19	10	700	0.25	5	9.9	344	69	
1N4744	ZM4744	15	17	14	700	0.25	5	11.4	304	61	
1N4745	ZM4745	16	15.5	16	700	0.25	5	12.2	285	57	
1N4746	ZM4746	18	14	20	750	0.25	5	13.7	250	50	
1N4747	ZM4747	20	12.5	22	750	0.25	5	15.2	225	45	
1N4748	ZM4748	22	11.5	23	750	0.25	5	16.7	205	41	
1N4749	ZM4749	24	10.5	25	750	0.25	5	18.2	190	38	
1N4750	ZM4750	27	9.5	35	750	0.25	5	20.6	170	34	
1N4751	ZM4751	30	8.5	40	1000	0.25	5	22.8	150	30	
1N4752	ZM4752	33	7.5	45	1000	0.25	5	25.1	135	27	
1N4753	ZM4753	36	7.0	50	1000	0.25	5	27.4	125	25	
1N4754	ZM4754	39	6.5	60	1000	0.25	5	29.7	115	23	
1N4755	ZM4755	43	6.0	70	1500	0.25	5	32.7	110	22	
1N4756	ZM4756	47	5.5	80	1500	0.25	5	35.8	95	19	
1N4757	ZM4757	51	5.0	95	1500	0.25	5	38.8	90	18	
1N4758	ZM4758	56	4.5	110	2000	0.25	5	42.6	80	16	
1N4759	ZM4759	62	4.0	125	2000	0.25	5	47.1	70	14	
1N4760	ZM4760	68	3.7	150	2000	0.25	5	51.7	65	13	
1N4761	ZM4761	75	3.3	175	2000	0.25	5	56.0	60	12	

The error of the standard voltage stability value is $\pm 10\%$. The added suffix "A" error is $\pm 5\%$, while the suffix "C" error is 2% and "D" is 1%.

DO-41 / LL-41 voltage stable diode series

Silicon planar voltage stabilization diode

Features

- Silicon Planar Zener Diodes.
- For use as voltage stabilizer or voltage reference.
- The Zener voltage are graded according international standards.

Mechanical Data

Print:1N47xxA

Case:DO-35 Glass

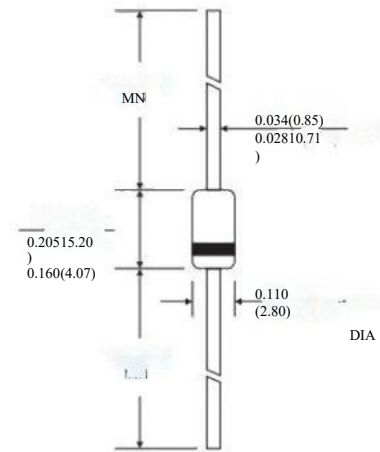
Case

Weight:approx.0.31g

Packaging Codes/Options:

BP:5K per box,50K/carton

AP:2.5K per Ammo tape (52mm tape),50K/carton

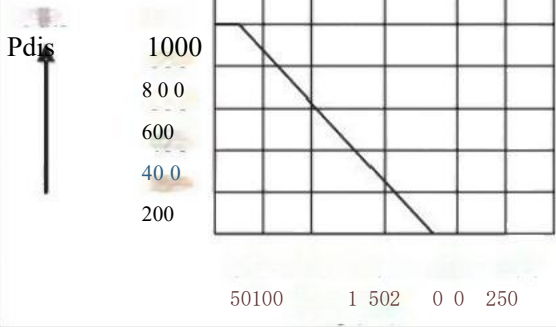


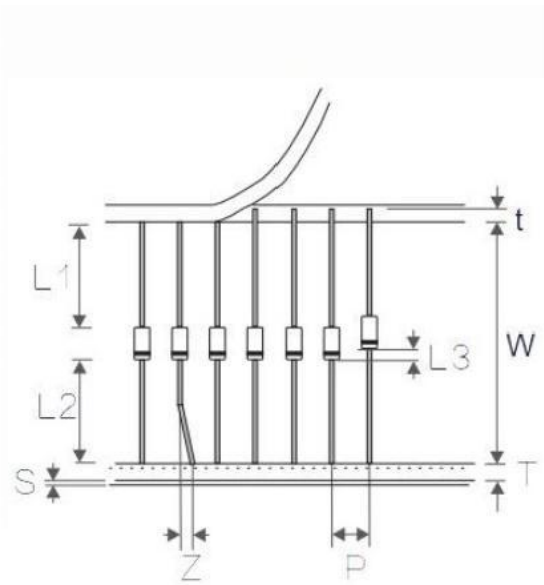
DO-41

Maximum Ratings and Thermal Characteristics TA=25°C unless otherwise noted

Parameter	Symbol	Limit	Unit
Power Dissipation at Tamb=25°C	P _{tot}	1000	mW
Junction Temperature	T	175	°C
Storage Temperature	T _s	-65 to +175	°C
Forward Voltage at I _p =100 mA	V _F	1.2	V

Power dissipation versus ambient temperature Changes between dissipation power and ambient temperature





52 Band Size (mm)

W	52.4±8.8
P	5.0±0.5
L1-L2	0.8Max
T	6.0±0.5
t	3.0Min
Z	0.5Max
L3	0.8Max
S	0.5Max

explain:

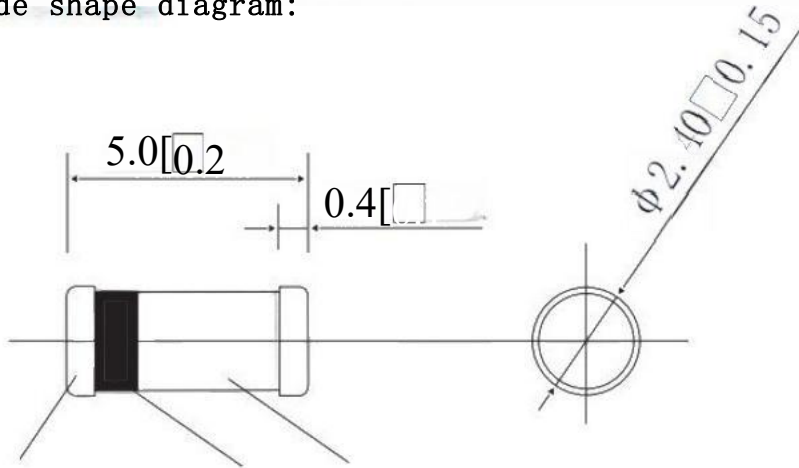
All the inside and outer boxes of environmental protection products are marked as follows:



RoHS perhaps

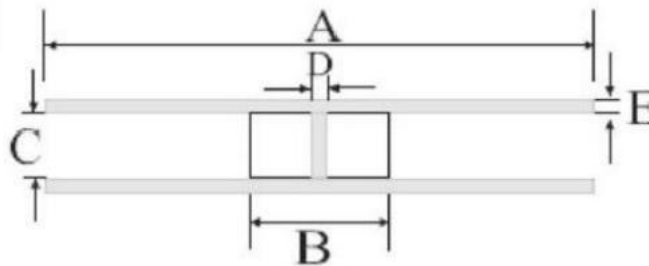
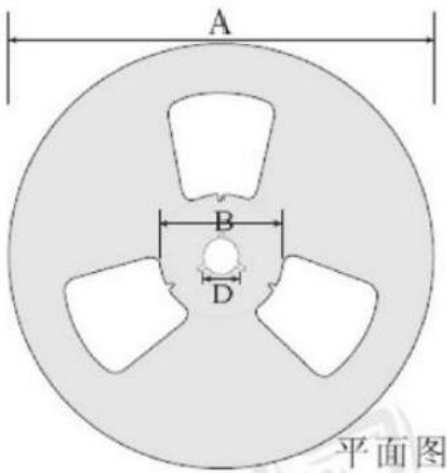
Silicon planar voltage stabilization diode

LL-41 Diode shape diagram:

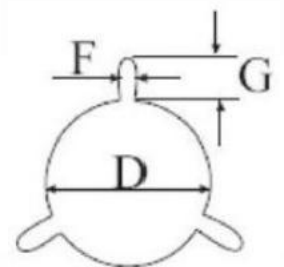


lead wire The external diameter of the color ring tube is $\phi 2.33 \pm 0.1$ unit: mm

LL-41 Diode tape tray overall dimensions:



(Bubble film core) side diagram

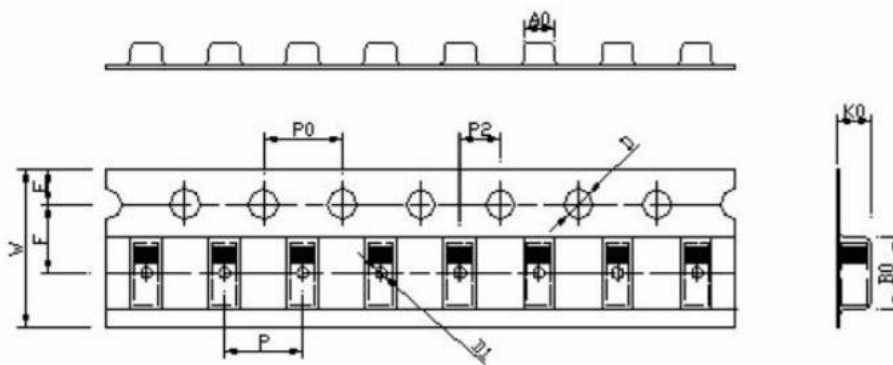


bore size

$A \pm 1e$	$B \pm 1\mu$	$C \pm 1\mu$	$D \pm 1/-0.5\mu$	$E \pm 0.1$	$F \pm 0.5\mu$	$G \pm 0.5\mu$
330 μ	75 μ	13.5 μ	13.5	2.3 μ	3 μ	4.5

Silicon planar
voltage
stabilization
diode

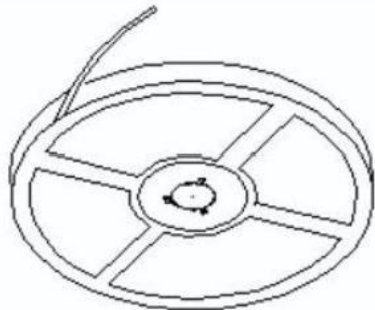
LL-41 Diode strip profile drawing:



We	Pe	Ee	Fe	D o	D1
$120 \pm 0.10 \mu$	$4.00 \pm 0.10 \mu$	$1.75 \pm 0.10 e$	$5.50 \pm 0.05 \mu$	$1.55 \pm 0.05 \mu$	$1.55 \pm 0.05 \mu$

P o	P2 μ	A0 μ	B0	K o	e
$4.00 \pm 0.10 \mu$	$2.00 \pm 0.05 \mu$	$3.10 \pm 0.10 \mu$	$5.40 \pm 0.10 \mu$	$3.00 \pm 0.10 \mu$	e

LL-41 Diode tape disc profile drawing:



Outline drawing of LL-41 diode tape tray