

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 (gSurge) | Maximum Zener Current                   | Power Dissipation @25°C T. |
| DO-41 Package | MELF Package | Vz                            | Izr  | Rz@Iz                      | RzJK@zk |      | R                                   | VR   | mA                                      | mA                                      | W                          |
|               |              | V                             | mA   |                            |         | mA   | mA                                  | V    |                                         |                                         |                            |
| 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%.

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## 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

### Mechanical Data

**Print:1N47xxA**

Case:DO-35 Glass

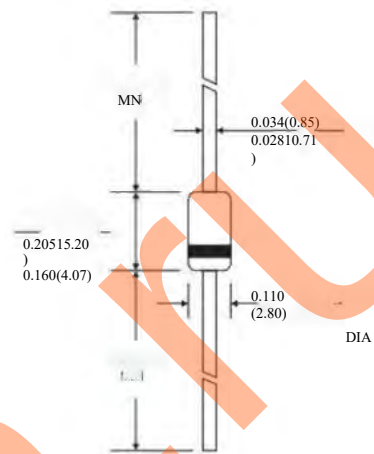
Case

Weight:approx.0.31g

**Packaging Codes/Options:**

BP:5K per box,50K/carton

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

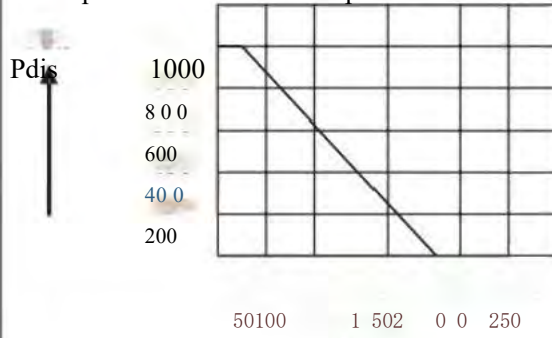


DO-41

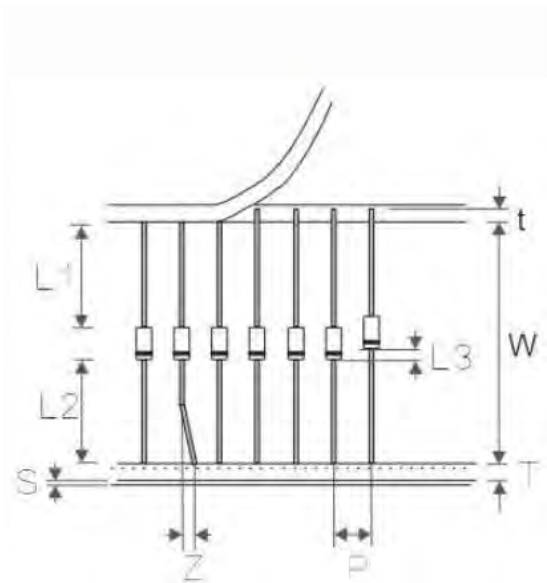
Maximum Ratings and Thermal Characteristics TA=25°C unless otherwise noted

| Parameter                      | Symbol | Limit       | Unit |
|--------------------------------|--------|-------------|------|
| Power Dissipation at Tamb=25°C | Ptot   | 1000        | mW   |
| Junction Temperature           | T      | 175         | °C   |
| Storage Temperature            | Ts     | -65 to +175 | °C   |
| Forward Voltage at Ip=100 mA   | VF     | 1.2         | V    |

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



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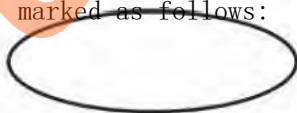


52 Band Size (mm)

|       |          |
|-------|----------|
| 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:

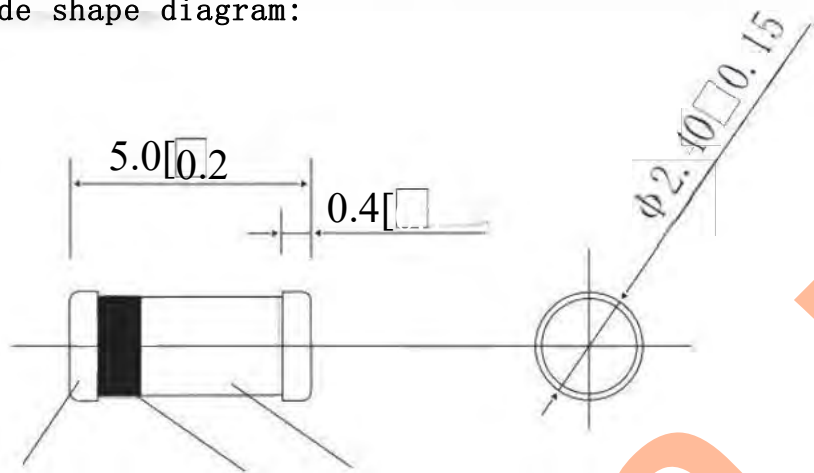
All the inside and outer boxes of  
environmental protection products are  
marked as follows:



**RoHS**perhaps

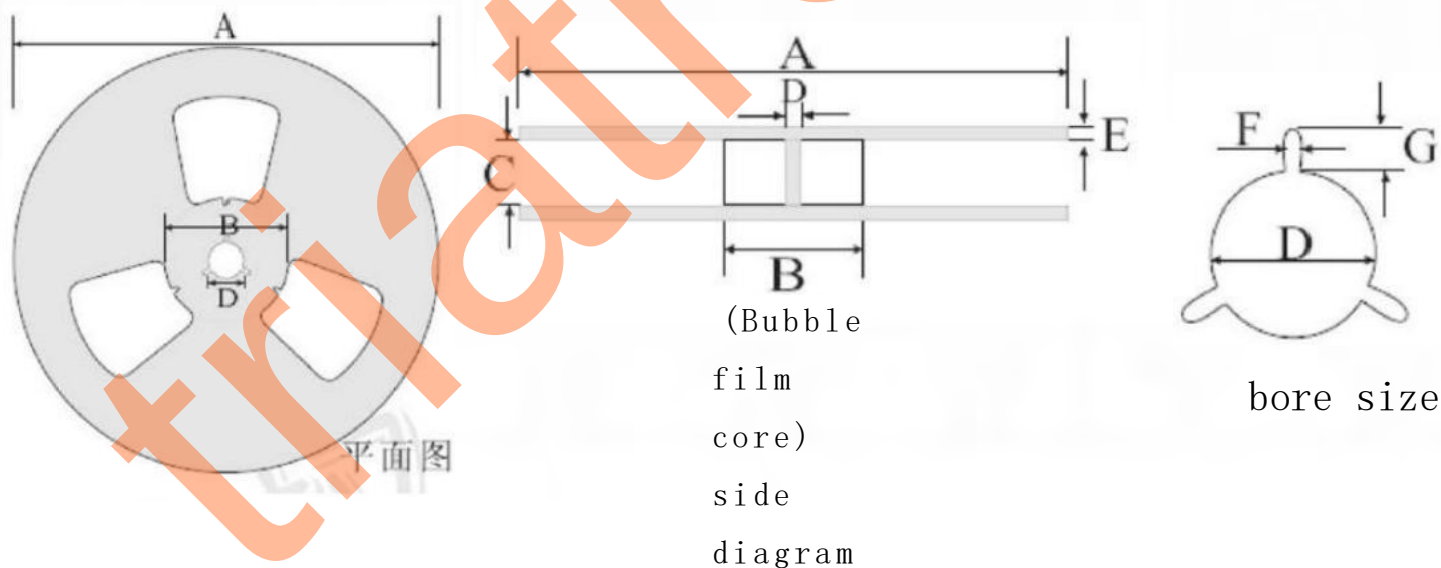
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LL-41 Diode shape diagram:



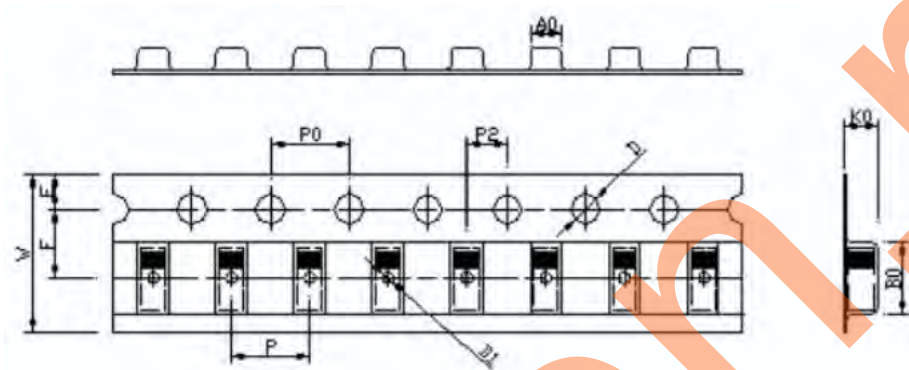
lead wireThe external diameter of the color  
ring tube is  $\phi 2.33 \pm 0.1$  unit: mm

LL-41 Diode tape tray overall dimensions:



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

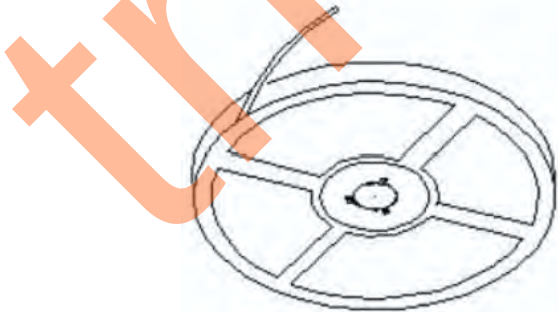
LL-41 Diode strip profile drawing:



| We        | Pe         | Ee         | Fe         | D o        | D1         |
|-----------|------------|------------|------------|------------|------------|
| 120±0.10μ | 4.00±0.10μ | 1.75±0.10e | 5.50±0.05μ | 1.55±0.05μ | 1.55±0.05μ |

| P o        | P2μ        | A0μ        | B0         | K o        | e |
|------------|------------|------------|------------|------------|---|
| 4.00±0.10μ | 2.00±0.05μ | 3.10±0.10μ | 5.40±0.10μ | 3.00±0.10μ | e |

LL-41 Diode tape disc profile drawing:



Outline drawing of LL-41 diode tape tray