

Features

- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance
- Large absorbing transient current capability.
- Size: 8.0mm*8.0mm
- Storage and operating temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020

Applications

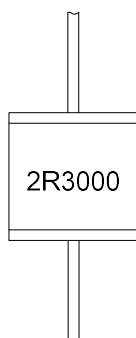
- Repeaters, Modems
- Telephone Interface, Line cards
- Data communication equipment
- Line test equipment

Part Number Code

LY82R 3000 K

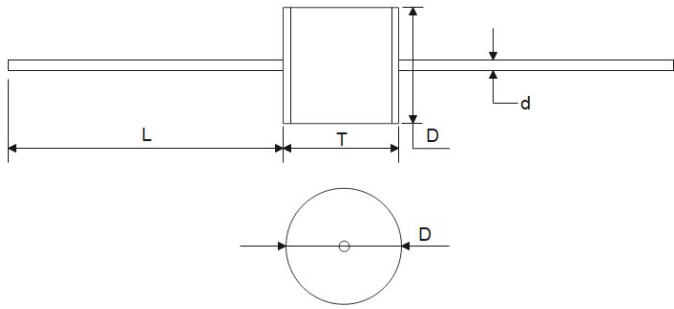
LY82R: Size Code, LY8 series, Two electrodes
3000: DC Breakdown Voltage=3000V@100V/s
K: Impulse Discharge Current=3KA@8/20μs

Marking



Dimensions

| Item | Dimensions(mm) |
|------|----------------|
| D | 8.0+0.3,-0.5 |
| T | 8.0+0.6,-0.1 |
| d | 0.8±0.05 |
| L | 20.0min. |



Electrical Characteristics (T_A=25°C)

| Model Name | DC Breakdown Voltage | Maximum Impulse Breakdown Voltage | Maximum Impulse Discharge Current | Alternating Discharge Current | Impulse Life | Minimum Insulation Resistance | Maximum Capacitance |
|------------|----------------------|-----------------------------------|-----------------------------------|-------------------------------|--------------------|-------------------------------|---------------------|
| | 100V/s | 1000V/μs | 8/20μs, 10 times | 50Hz, 1s | 10/1000μs, 100A | 1000VDC | 1MHz |
| LY82R3000K | 3000V±20% | 4200V | 3KA | 3A | 100 times | 1GΩ | 1.5pF |

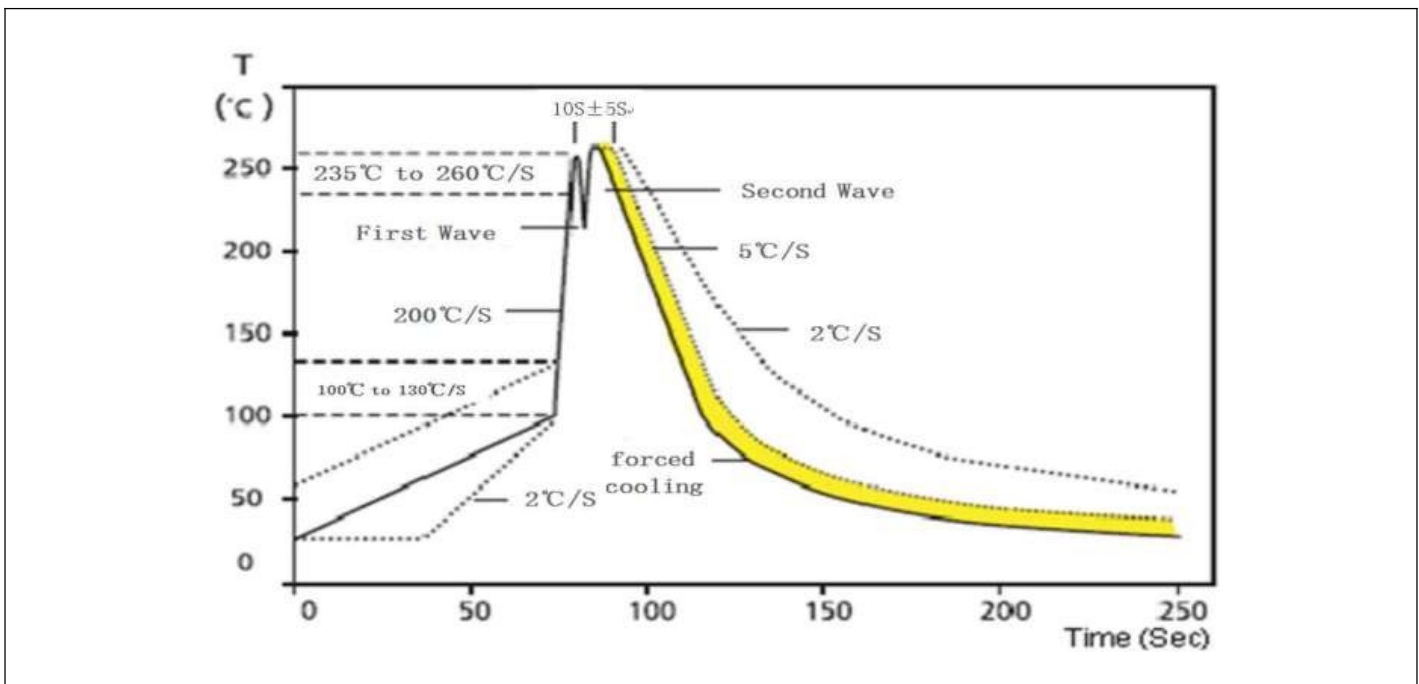
Packaging (Bulk)

| Item | PVC Tray | Inner Box | Carton |
|----------|----------|-----------|---------|
| Quantity | 100pcs | 500pcs | 5000pcs |

Electrical Ratings

| Items | Test Condition/Description | Requirement |
|-----------------------------------|---|-----------------------------|
| DC Breakdown Voltage | The voltage is measured with a voltage rate of rise between 100V/s. | To meet the specified value |
| Maximum Impulse Breakdown Voltage | The maximum impulse breakdown voltage is measured with voltage ramp $dv/dt=1000V/\mu s$. | |
| Impulse Discharge Current | 8/20 μs surge current that can be applied between two electrode, 5 positive and 5 negative surges, with 3 minutes interval time, without causing the DC breakdown voltage to change more than -20%~+30% from its initial measured value. | |
| Alternating Discharge Current | Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with 3 minutes interval time. DC breakdown voltage shall not change more than -20%~+30% from its initial value. | |
| Insulation Resistance | The resistance of gas tube shall be measured between two electrodes. | |
| Capacitance | The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz | |

Wave Soldering



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