

**Fast recovery high voltage diodes**

**Reverse Voltage – 10kV**

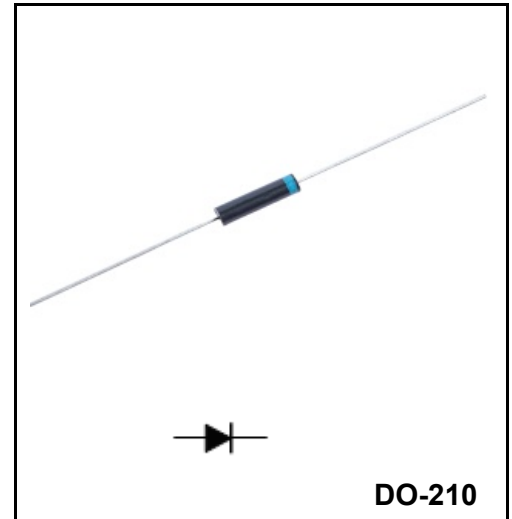
**Forward Current –10mA**

**FEATURES**

- ◆Supersmall size
- ◆High reliability
- ◆High speed switching

**MECHANICAL DATA**

- ◆Case: Molded Plastic Body
- ◆Epoxy meets UL 94V-0 flammability rating
- ◆Terminals: Pure tin plated leads, solderable per J-STD-002and JESD22-B102, E3 suffix for consumer grade, meet JESD201class 1A whisker test.
- ◆Polarity: Color band denotes cathode end



**Marking Code**

2CL72A

72A

**Maximum rating (Ta=25°C unless otherwise noted)**

| Parameter                                |   | Symbol      | 2CL72A   | Unit |
|--|---|-------------|----------|------|
| Repetitive peak reverse voltage          |   | $V_{RRM}$   | 10       | KV   |
| Non-Repetitive peak reverse voltage      |   | $V_{RMS}$   | 12       | KV   |
| Average forward current                  | 60Hz half-sine wave, Resistance load, Ta=25°C | $I_{F(AV)}$ | 10       | mA   |
| Surge(Non-repetitive)forward current     | 60Hz half-sine wave, 1cycle, Ta=25°C          | $I_{FSM}$   | 0.5      | A    |
| Peak forward voltage                     | $I_{FM}=10mA$                                 | $V_{FM}$    | 32       | V    |
| Peak reverse current<br>$V_{RM}=V_{RRM}$ | Ta=25°C                                       | $I_{RRM}$   | 2<br>5   | μA   |
|  | Ta=100°C                                      |             |          |      |
| Reverse recovery time                    | $I_F=2mA, I_{RM}=4mA$                         | $T_{rr}$    | 0.08     | uS   |
| Operating ambient temperature            |   | $T_a$       | -40~+125 | °C   |
| Storage Temperature Range                |   | $T_{stg}$   | -40~+150 | °C   |
| Virtual junction temperature             |   | $T_{(vj)}$  | 125      | °C   |

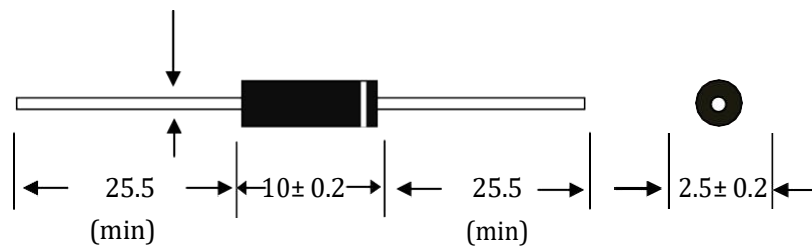
### Ordering information

| Package | Packing Description | Packing Quantity                  |
|---------|---------------------|-----------------------------------|
| DO-210  | ammo pack           | 5000PCS/Inner Box 50000PCS/Carton |

### Package Dimensions(Millimeter(mm))

#### DO-210

Lead Diameter  $0.5 \pm 0.03$



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