

Fast recovery high voltage diodes

Reverse Voltage – 6KV-8KV

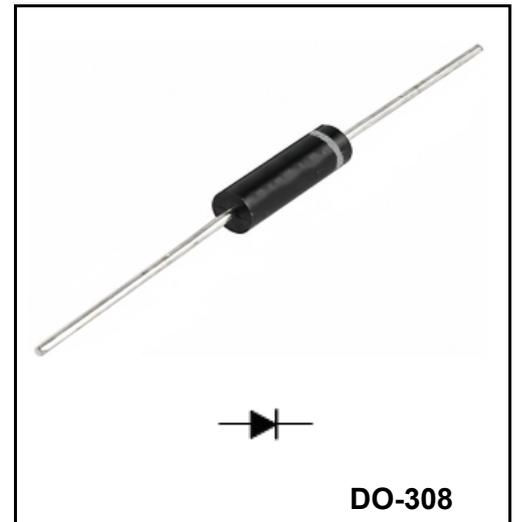
Forward Current –10mA

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



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

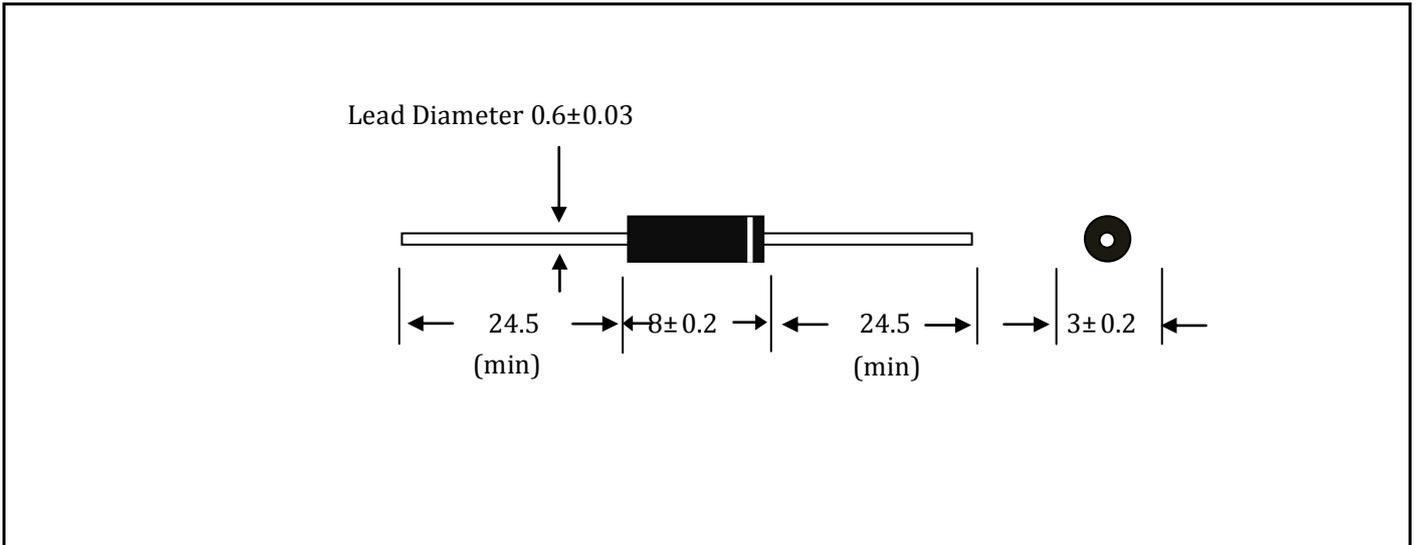
| Parameter | | Symbol | 2CL70 | 2CL71 | Unit |
|------------------------------------------|-----------------------------------------------|-------------|----------|-------|------|
| Repetitive peak reverse voltage | | V_{RRM} | 6 | 8 | KV |
| Non-Repetitive peak reverse voltage | | V_{RSM} | 8 | 10 | 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} | 24 | 30 | V |
| Peak reverse current $V_{RM}=V_{RRM}$ | Ta=25°C | I_{RRM} | 2 | | μA |
| | Ta=100°C | | 5 | | |
| Reverse recovery time | $I_F=2mA, I_{RM}=4mA$ | T_{rr} | 0.08 | | μS |
| 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-308 | braid | 2500PCS/Box 25000PCS/Carton |

Package Dimensions(Millimeter(mm))

DO-308



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