

## 15kV 100mA HIGH VOLTAGE DIODE

2CL2FL is high reliability resin molded type high voltage diode in small size package which is sealed a multilayered mesa type silicon chip by epoxy resin.

### Features

- High speed switching
- High Current
- High surge resistivity for CRT discharge
- High reliability design
- High Voltage

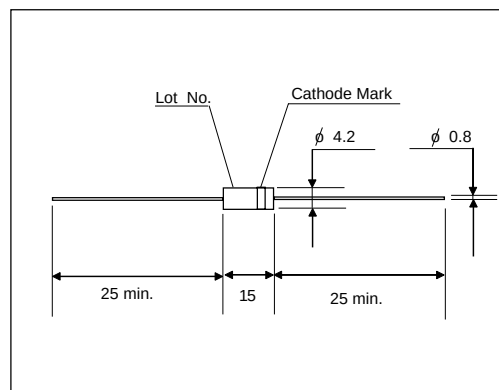
### Applications

- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power

### Maximum Ratings and Characteristics

- Absolute Maximum Ratings

### Outline Drawings : mm



### Cathode Mark

| Type   | Mark |
|--------|------|
| 2CL2FL |      |

| Items                                | Symbols   | Condition                                 | 2CL2FL      | Units              |
|--------------------------------------|-----------|-------------------------------------------|-------------|--------------------|
| Repetitive Peak Reverse Voltage      | $V_{RRM}$ |                                           | 15          | kV                 |
| Average Output Current               | $I_O$     | $T_a=25^{\circ}\text{C}$ , Resistive Load | 100         | mA                 |
| Surge Current                        | $I_{FSM}$ |                                           | 10          | $A_{peak}$         |
| Junction Temperature                 | $T_J$     |                                           | 155         | $^{\circ}\text{C}$ |
| Allowable Operation Case Temperature | $T_c$     |                                           | 125         | $^{\circ}\text{C}$ |
| Storage Temperature                  | $T_{stg}$ |                                           | -40 to +155 | $^{\circ}\text{C}$ |

- Electrical Characteristics ( $T_a=25^{\circ}\text{C}$  Unless otherwise specified)

| Items                         | Symbols  | Conditions                                                  | 2CL2FL | Units         |
|-------------------------------|----------|-------------------------------------------------------------|--------|---------------|
| Maximum Forward Voltage Drop  | $V_F$    | at $25^{\circ}\text{C}$ , $I_F=100\text{mA}$                | 26     | V             |
| Maximum Reverse Current       | $I_{R1}$ | at $25^{\circ}\text{C}$ , $V_R=V_{RRM}$                     | 2.0    | $\mu\text{A}$ |
|                               | $I_{R2}$ | at $100^{\circ}\text{C}$ , $V_R=V_{RRM}$                    | 50     | $\mu\text{A}$ |
| Maximum Reverse Recovery Time | $T_{rr}$ | at $25^{\circ}\text{C}$                                     | 100    | nS            |
| Junction Capacitance          | $C_j$    | at $25^{\circ}\text{C}$ , $V_R=0\text{V}$ , $f=1\text{MHz}$ | 15     | pF            |