

## 15kV 100mA HIGH VOLTAGE DIODE

2CL2xx 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

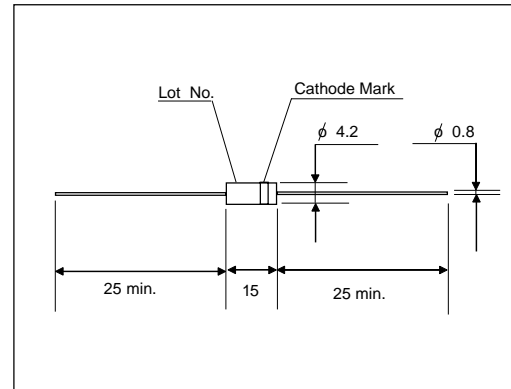
### Applications

- 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               | $I_o$     | $T_a=25^{\circ}C$ , Resistive Load | 100         | mA          |
| Surge Current                        | $I_{FSM}$ |                                    | 10          | $A_{peak}$  |
| Junction Temperature                 | $T_j$     |                                    | 155         | $^{\circ}C$ |
| Allowable Operation Case Temperature | $T_c$     |                                    | 125         | $^{\circ}C$ |
| Storage Temperature                  | $T_{stg}$ |                                    | -40 to +155 | $^{\circ}C$ |

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

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