

**VOLTAGE RANGE: 25 KV**  
**CURRENT: 5.0 mA**

### Features

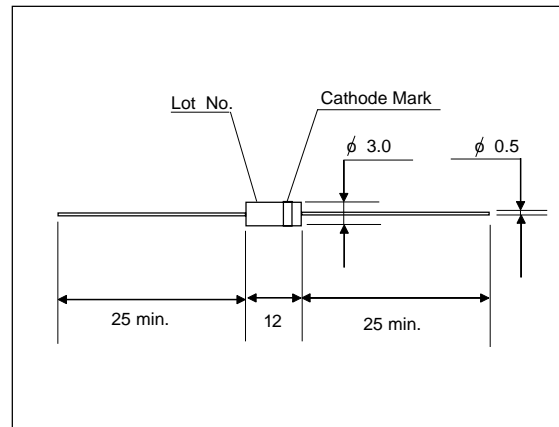
- High speed switching
- Low VF
- High surge resistivity for CRT discharge
- High reliability design
- Ultra small package

### Applications

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



### Outline Drawings : mm



### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

| Characteristic   | Symbols          | 2CL82       | Units |    |
|--|------------------|-------------|-------|----|
| Repetitive Peak Reverse Voltage  | V <sub>RRM</sub> | 25          | kV    |    |
| Average Output Current<br>T <sub>a</sub> =25°C, Resistive Load               | I <sub>o</sub>   | 5.0         | mA    |    |
| Surge Current  | I <sub>FSM</sub> | 0.5         | A     |    |
| Maximum Forward Voltage Drop<br>at 25°C, I <sub>F</sub> = I <sub>F(AV)</sub> | V <sub>F</sub>   | 55          | V     |    |
| Maximum Reverse Current  | V <sub>RRM</sub> | at 25°C     | 2.0   | uA |
|  |                  | at 100°C    | 5.0   | uA |
| Maximum Reverse Recovery Time<br>at 25°C                                     | T <sub>rr</sub>  | 100         | nS    |    |
| Junction Capacitance<br>at 25°C, V <sub>R</sub> =0V, f=1MHz                  | C <sub>j</sub>   | 1.0         | pF    |    |
| Junction Temperature   | T <sub>j</sub>   | 125         | °C    |    |
| Allowable Operation Case Temperature   | T <sub>c</sub>   | 125         | °C    |    |
| Storage Temperature  | T <sub>stg</sub> | -40 to +125 | °C    |    |