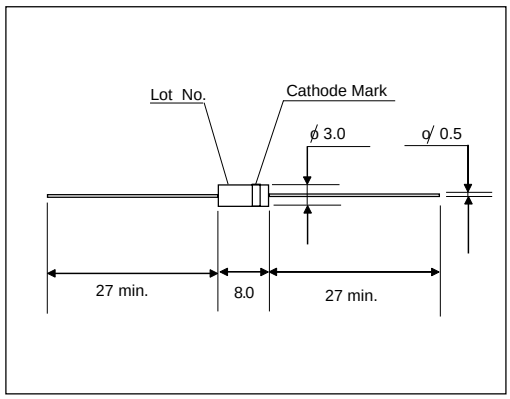
# HVCA™

# 2CL70

## 5mA 6kV HIGH VOLTAGE DIODES

2CL70 is high reliability resin molded type high voltage diode in small size package which is sealed a multilayed mesa type silicon chip by epoxy resin.

## ■ Outline Drawings : mm




## ■ Features

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

## ■ Applications

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

## ■ Cathode Mark

| Type | Mark |
|---|---|
| 2CL70 |  |

## ■ Maximum Ratings and Characteristics

● Absolute Maximum Ratings

| Items | Symbols | Condition | 2CL70 | Units |
|---|---|---|---|---|
| Repetitive Peak Renerse Voltage | $V_{RRM}$ | | 6 | kV |
| Average Output Current | $I_O$ | Ta=25°C,Resistive Load | 5 | $mA_{peak}$ |
| Suege Current | $I_{FSM}$ | | 0.5 | $A_{peak}$ |
| Junction Temperature | Tj | | 125 | °C |
| Allowable Operation Case Temperature | Tc | | 120 | °C |
| Storage Temperature | $T_{stg}$ | | -40 to +125 | °C |

● Electrical Characteristics (Ta=25°C Unless otherwise specified )

| Items | Symbols | Conditions | 2CL70 | Units |
|---|---|---|---|---|
| Maximum Forward Voltage Drop | $V_F$ | at 25°C,$I_F$ =$I_{F(AV)}$ | 20 | V |
| Maximum Reverse Current | IR1 | at 25°C,$V_R$ =$V_{RRM}$ | 2.0 | uA |
| | IR2 | at 100°C,$V_R$ =$V_{RRM}$ | 5.0 | uA |
| Maximum Reverse Recovery Time | Trr | at 25°C | 100 | nS |
| Junction Capacitance | Cj | at 25°C,$V_R$=0V,f=1MHz | 1.0 | pF |

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