

20kV 10mA HIGH VOLTAGE DIODES

HV10G20 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

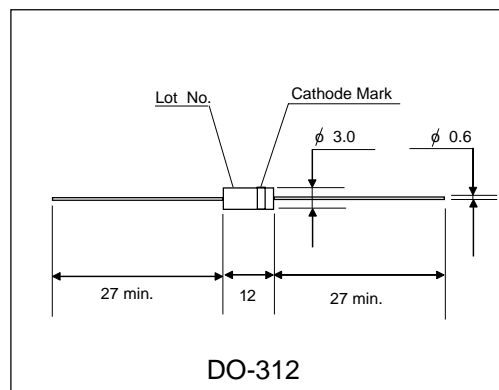
Applications

- 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 |
|---------|------|
| HV10G20 | |

| Items | Symbols | Condition | HV10G20 | Units |
|--------------------------------------|------------------|-------------------------|-------------|-------------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | | 20 | kV |
| Average Output Current | I_o | Ta=25°C, Resistive Load | 10 | mA |
| Surge Current | I_{FSM} | | 0.8 | A _{peak} |
| Junction Temperature | T _J | | 125 | °C |
| Allowable Operation Case Temperature | T _c | | 120 | °C |
| Storage Temperature | T _{stg} | | -40 to +125 | °C |

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

| Items | Symbols | Conditions | HV10G20 | Units |
|-------------------------------|-----------------|-------------------------------|---------|-------|
| Maximum Forward Voltage Drop | V_F | at 25°C, $I_F = I_{F(AV)}$ | 55 | 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 | T _{rr} | at 25°C | 100 | nS |
| Junction Capacitance | C _j | at 25°C, $V_R = 0V, f = 1MHz$ | -- | pF |