

ESJA18

(8kV/5mA)

HIGH VOLTAGE DIODE

ESJA18 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

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

Applications

- Rectification for CRT display monitor high voltage power supply (FBT:Flyback Transformer)

Maximum Ratings and Characteristics

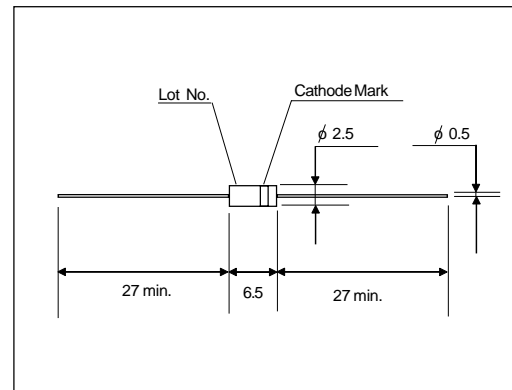
- Absolute Maximum Ratings

| Items | Symbols | Condition | Ratings | Units |
|--------------------------------------|-----------|---|-------------|--------------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | | 8 | kV |
| Average Output Current | I_o | | 5 | mA |
| Surge Current | I_{FSM} | $T_a=25^{\circ}\text{C}$, Resistive Load | 0.5 | A |
| Junction Temperature | T_j | 10mS Sine-half wave peak value | 120 | $^{\circ}\text{C}$ |
| Allowable Operation Case Temperature | T_c | | 100 | $^{\circ}\text{C}$ |
| Storage Temperature | T_{stg} | | -40 to +120 | $^{\circ}\text{C}$ |

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

| Items | Symbols | Conditions | Retings | Units |
|-------------------------------|----------|--|---------|---------------|
| Maximum Forward Voltage Drop | V_F | $I_F=10\text{mA}$ | 28 | V |
| Maximum Reverse Current | I_R | $V_R=V_{RRM}$ | 2 | μA |
| Maximum Reverse Recovery Time | t_{rr} | $T_a=25^{\circ}\text{C}$, $I_F=2\text{mA}$, $I_R=4\text{mA}$ | 0.045 | μs |
| Junction Capacitance | C_j | $T_a=25^{\circ}\text{C}$, $V_R=0\text{V}$, $f=1\text{MHz}$ | 2 | pF |

Outline Drawings



Cathode Mark

| Type | Mark |
|-----------|------|
| ESJA18-08 | |

ESJA18 (8kV/5mA)

Characteristics

