

ESJC33-06

(6.4kV/350mA)

HIGH VOLTAGE DIODE

ESJC33 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

- Low V_F
- High surge proof resistivity
- High reliability .
- High speed switching

Applications

- Rectification for inverter type Microwave oven high voltage power supply

Maximum Ratings and Characteristics

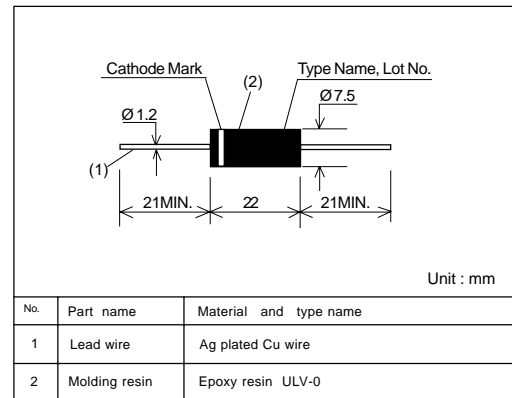
- Absolute Maximum Ratings

| Items | Symbols | Conditions | ESJC33-06 | Units |
|-------------------------------------|-----------|---|-------------|--------------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | | 6.4 | kV |
| Average Forward Current | I_o | $T_I \leq 110^{\circ}\text{C}$ | 350 | mA |
| Non-repetitive Peak Forward Current | I_{FSM} | 50Hz.sine half-wave peak value. One-shot. $T_a=25^{\circ}\text{C}$ | 15 | A |
| Non-repetitive Peak Reverse Current | I_{RSM} | $T_w=1\text{mS}$. Rectangular-wave. One-shot. $T_a=25^{\circ}\text{C}$ | 50 | mA |
| Allowable Junction Temperature | T_j | | 120 | $^{\circ}\text{C}$ |
| Storage Temperature Range | T_{stg} | | -30 to +130 | $^{\circ}\text{C}$ |

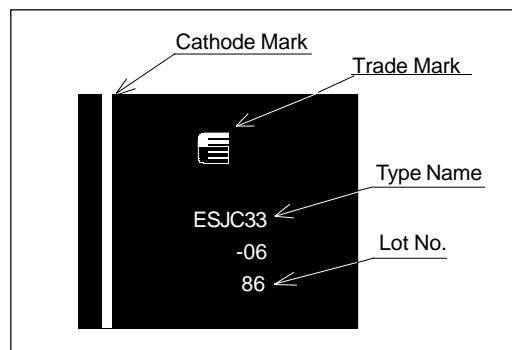
- Electrical Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

| Items | Symbols | Conditions | ESJC33-06 | Units |
|-------------------------------|----------|--|-----------|---------------|
| Maximum Forward Voltage Drop | V_F | $I_F=350\text{mA}$ | 12 | V |
| Maximum Reverse Current | I_R | $V_R=6.4\text{kV}$ | 10 | μA |
| Minimum Reverse Recovery Time | t_{rr} | $I_F=100\text{mA}$, $I_R=100\text{mA}$ 90%Recovery | 0.15 | μs |

Outline Drawings



Cathode Mark, Type Name



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Characteristics

