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# HZU6.8L

Silicon Epitaxial Planar Zener Diode for Surge Absorb

# HITACHI

ADE-208-678(Z)

Rev 0

July 1998

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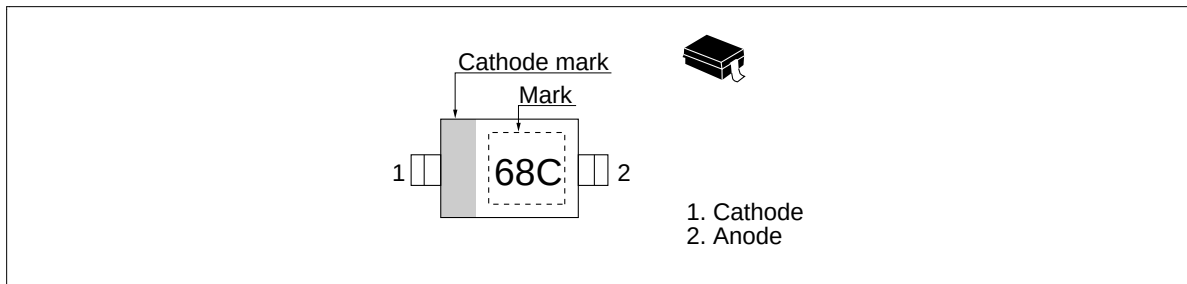
## Features

- Lower reverse current leakage compared with conventional products.
- Ultra small Resin Package (URP) is suitable for surface mount design.

## Ordering Information

| Type No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HZU6.8L  | 68C        | URP          |

## Outline



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## HZU6.8L

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### Absolute Maximum Ratings (Ta = 25°C)

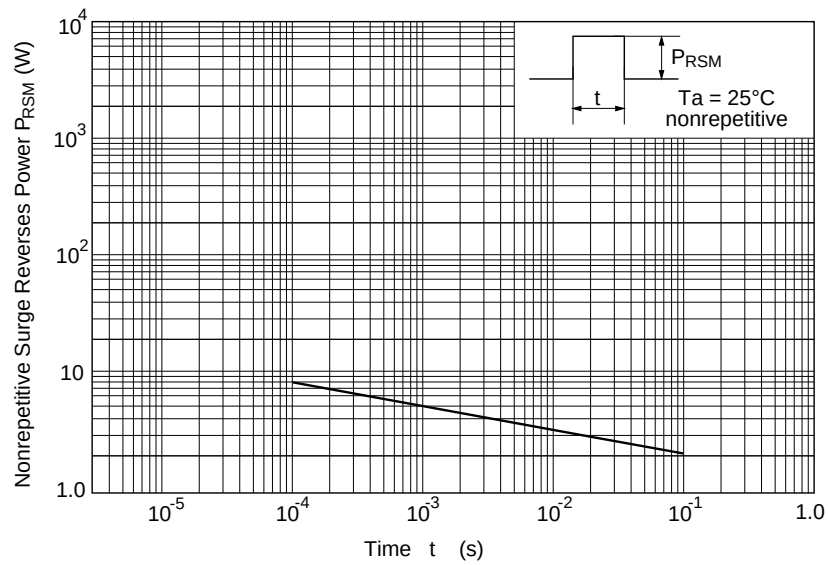
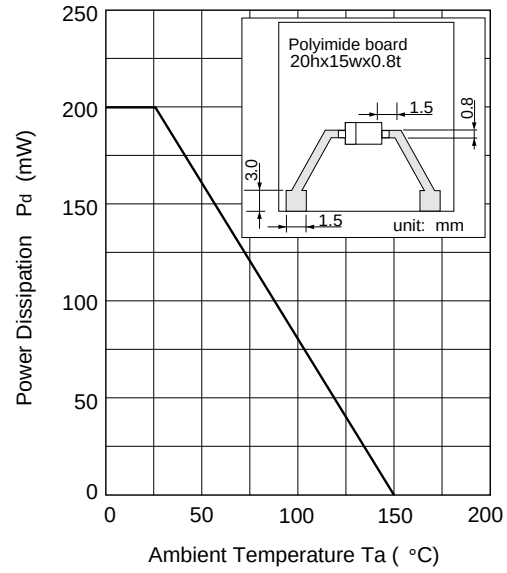
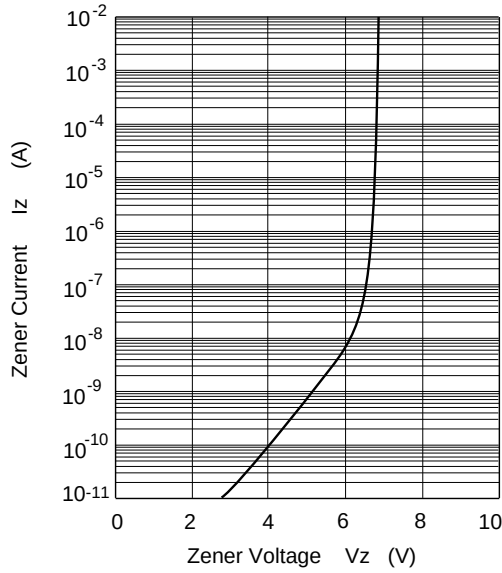
| Item                 | Symbol           | Value       | Unit |
|----------------------|------------------|-------------|------|
| Power dissipation    | Pd <sup>*1</sup> | 200         | mW   |
| Junction temperature | Tj               | 150         | °C   |
| Storage temperature  | Tstg             | -55 to +150 | °C   |

Note 1. See Fig.2.

### Electrical Characteristics (Ta = 25°C)

| Item               | Symbol         | Min  | Typ | Max  | Unit | Test Condition                    |
|--------------------|----------------|------|-----|------|------|-----------------------------------|
| Zener voltage      | V <sub>z</sub> | 6.47 | —   | 7.14 | V    | I <sub>z</sub> = 5 mA, 40ms pulse |
| Reverse current    | I <sub>R</sub> | —    | —   | 20   | nA   | V <sub>R</sub> = 5.0V             |
| Dynamic resistance | r <sub>d</sub> | —    | —   | 30   | Ω    | I <sub>z</sub> = 5 mA             |

## Main Characteristic



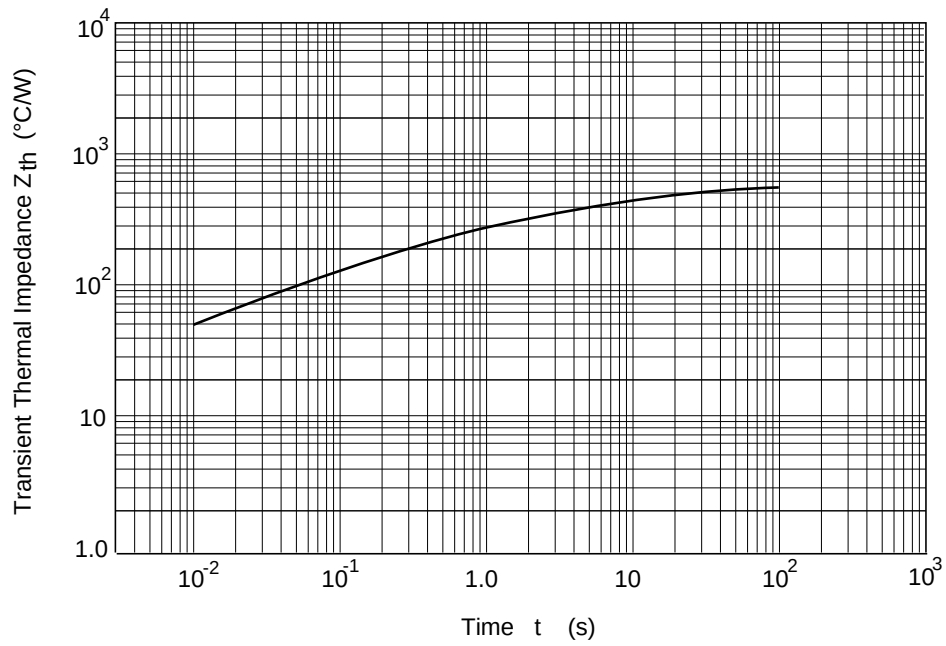
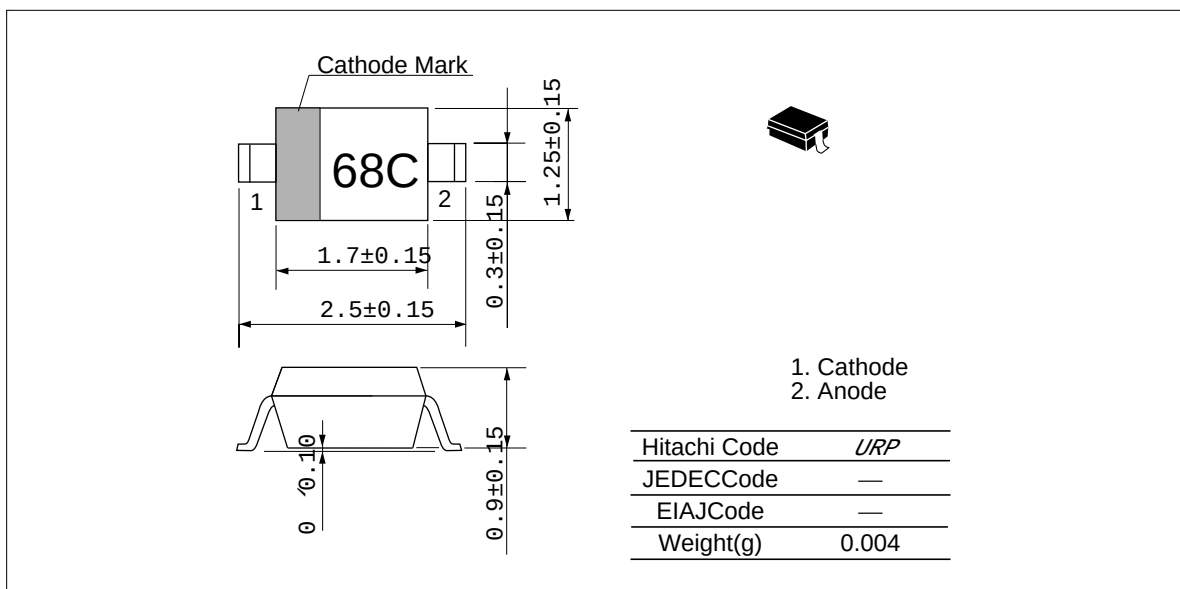
**Main Characteristic**

Fig.4 Transient Thermal Impedance

# Package Dimensions

Unit : mm



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