

# Zener diode

## EDZ Series

### ●Applications

Constant voltage control

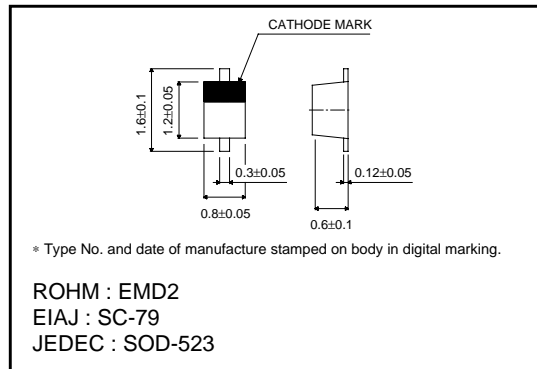
### ●Features

- 1) Extremely compact, 2-pin mini-mold type for high-density mounting (EMD2).
- 2) Can be mounted automatically, using chip mounter.
- 3) High reliability.

### ●Construction

Silicon epitaxial planar

### ●External dimensions (Units : mm)



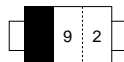
### ●Absolute maximum ratings (Ta = 25°C)

| Parameter             | Symbol           | Limits     | Unit |
|-----------------------|------------------|------------|------|
| Power dissipation     | P                | 100        | mW   |
| Junction temperature  | T <sub>j</sub>   | 125        | °C   |
| Storage temperature   | T <sub>stg</sub> | -55 ~ +125 | °C   |
| Operating temperature | T <sub>opr</sub> | -55 ~ +125 | °C   |

### ●Markings (Type No.)

| Product name | Type No. |   |
|--------------|----------|---|
| EDZ4.7B      | 9        | 2 |
| EDZ5.1B      | A        | 2 |
| EDZ5.6B      | C        | 2 |
| EDZ6.2B      | E        | 2 |
| EDZ6.8B      | F        | 2 |

(Ex.) EDZ4.7B



Diodes

●Electrical characteristics (Ta = 25°C)

| Type    | Zener voltage |       |         | Operating resistance |         | Rising operating resistance |         | Reverse current |        |
|---------|---------------|-------|---------|----------------------|---------|-----------------------------|---------|-----------------|--------|
|         | Vz (V)        |       |         | Zz (Ω)               |         | Zzk (Ω)                     |         | IR (μA)         |        |
|         | Min.          | Max.  | Iz (mA) | Max.                 | Iz (mA) | Max.                        | Iz (mA) | Max.            | VR (V) |
| EDZ4.7B | 4.550         | 4.750 | 5       | 100                  | 5       | 800                         | 0.5     | 2               | 1.0    |
| EDZ5.1B | 4.980         | 5.200 | 5       | 80                   | 5       | 500                         | 0.5     | 2               | 1.5    |
| EDZ5.6B | 5.490         | 5.730 | 5       | 60                   | 5       | 200                         | 0.5     | 1               | 2.5    |
| EDZ6.2B | 6.060         | 6.330 | 5       | 60                   | 5       | 100                         | 0.5     | 1.0             | 3.0    |
| EDZ6.8B | 6.650         | 6.930 | 5       | 40                   | 5       | 60                          | 0.5     | 0.5             | 3.5    |

Notes) 1. The Zener voltage (Vz) is measured 40ms after power is supplied.  
 2. The operating resistances (Zz, Zzk) are measured by superimposing a minute alternating current on the regulated current (Iz).

●Electrical characteristic curves (Ta = 25°C)

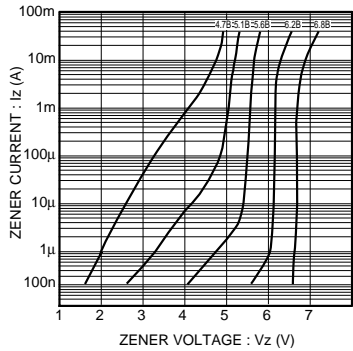


Fig. 1 Zener characteristics

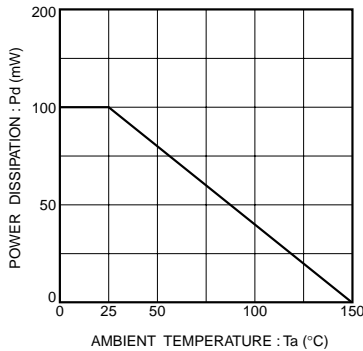


Fig. 2 Derating curve

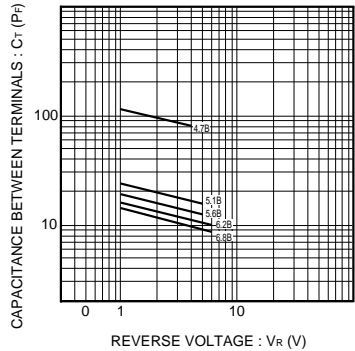


Fig. 3 Capacitance between terminal characteristics

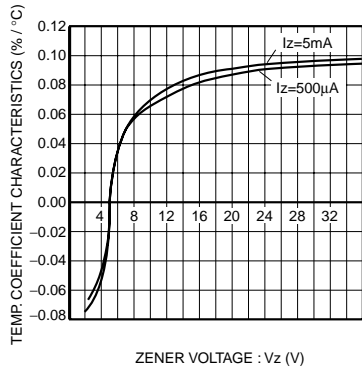


Fig. 4 Zener voltage-temp. coefficient characteristics

\* EDZ series : Vz=4.7V-6.8V