

# ESD Protection diode

## RSB5.6S

### ●Applications

ESD Protection

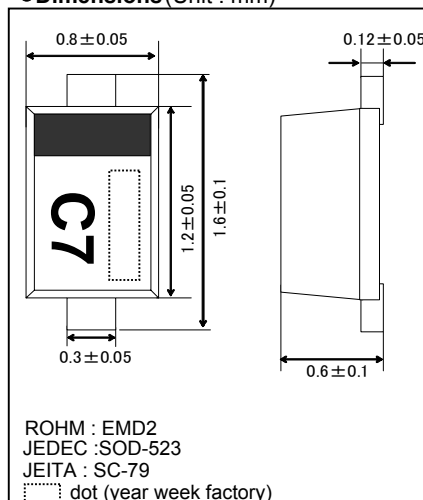
### ●Features

- 1) Ultra small mold type. (EMD2)
- 2) Bi direction high reliability.
- 3) Bi chip-mounter, automatic mounting is possible.

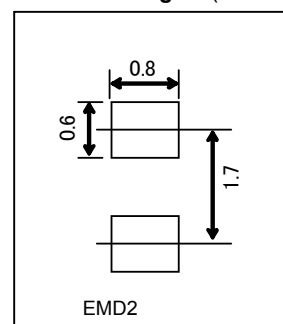
### ●Construction

Silicon epitaxial planar

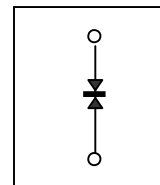
### ●Dimensions (Unit : mm)



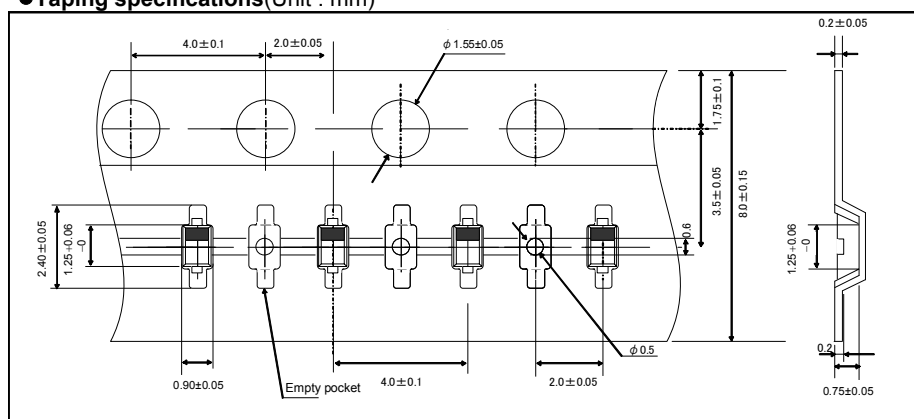
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



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

| Parameter                      | Symbol | Limits      | Unit |
|--------------------------------|--------|-------------|------|
| Peak Pulse Power (tp=10×100Qs) | Ppk    | 10          | W    |
| Power dissipation              | P      | 150         | mW   |
| Junction temperature           | Tj     | 150         | °C   |
| Storage temperature            | Tstg   | -55 to +150 | °C   |
| Operating temperature range    | Topr   | -55 to +150 | °C   |

### ●Electrical characteristics (Ta=25°C)

| Parameter       | Symbol | Min.  | Max.  | Unit | Conditions |
|-----------------|--------|-------|-------|------|------------|
| Zener voltage   | Vz     | 4.760 | 6.440 | V    | Iz=1mA     |
| Reverse current | IR     | -     | 1.0   | μA   | VR=2.5V    |

\* Zener voltage to be measured at 40ms after current starting to apply.

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