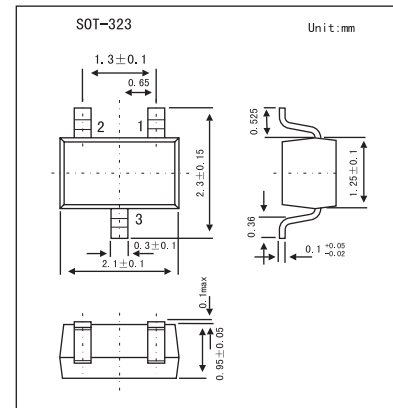


## Silicon Schottky Barrier Diode

## HSB88WA

## ■ Features

- Low reverse current, Low capacitance.
- CMPAK package is suitable for high density surface mounting and high speed assembly.

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

| Parameter                 | Symbol    | Value       | Unit             |
|---------------------------|-----------|-------------|------------------|
| Reverse voltage           | $V_R$     | 10          | V                |
| Average rectified current | $I_o$     | 15          | mA               |
| Junction temperature      | $T_j$     | 125         | $^\circ\text{C}$ |
| Storage temperature       | $T_{stg}$ | -55 to +125 | $^\circ\text{C}$ |

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

| Parameter                 | Symbol       | Conditions   | Min  | Typ | Max  | Unit           |
|---------------------------|--------------|--|------|-----|------|----------------|
| Forward voltage           | $V_F$        | $I_F = 1\text{ mA}$  | 0.35 |     | 0.42 | V              |
|                           |              | $I_F = 10\text{ mA}$   | 0.50 |     | 0.58 |                |
| Reverse current           | $I_R$        | $V_R = 2\text{ V}$   |      |     | 0.2  | $\mu\text{ A}$ |
|                           |              | $V_R = 10\text{ V}$  |      |     | 10   |                |
| Capacitance               | C            | $V_R = 0\text{ V}, f = 1\text{ MHz}$                                       |      |     | 0.80 | pF             |
| Capacitance deviation     | $\Delta C$   | $V_R = 0\text{ V}, f = 1\text{ MHz}$                                       |      |     | 0.10 | pF             |
| Forward voltage deviation | $\Delta V_F$ | $I_F = 10\text{ mA}$   |      |     | 10   | mV             |
| ESD-Capability (Note 1)   |              | $C=200\text{ pF}, R=0\ \Omega$ Both forward and reverse direction 1 pulse. | 30   |     |      | V              |

Note

1. Failure criterion ;  $I_R \geq 0.4\ \mu\text{ A}$  at  $V_R = 2\text{ V}$ 

## ■ Marking

|         |    |
|---------|----|
| Marking | C7 |
|---------|----|