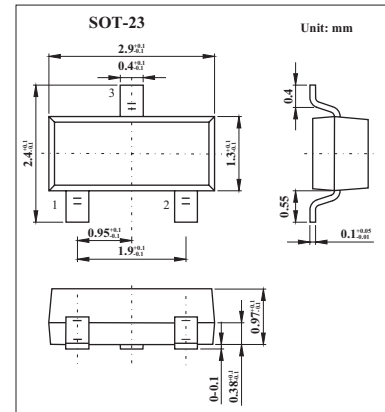


## Silicon Schottky Barrier Diode

## HRW0703A



### ■ Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- MPAK 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             |
|---|--------------------|--------------|------------------|
| Repetitive peak reverse voltage           | $V_{RRM}$          | 30           | V                |
| Forward current                           | $I_F$              | 700          | mA               |
| Non-repetitive peak forward surge current | $I_{FSM}$ (Note 1) | 5            | A                |
| Junction temperature                      | $T_j$              | 125          | $^\circ\text{C}$ |
| Storage temperature                       | $T_{stg}$          | -55 to + 125 | $^\circ\text{C}$ |

Note

1. 50Hz sine wave 1 pulse

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

| Parameter          | Symbol        | Conditions                           | Min | Typ | Max  | Unit               |
|--------------------|---------------|--------------------------------------|-----|-----|------|--------------------|
| Forward voltage    | $V_F$         | $I_F = 700\text{ mA}$                |     |     | 0.50 | V                  |
| Reverse current    | $I_R$         | $V_R = 30\text{ V}$                  |     |     | 100  | $\mu\text{A}$      |
| Capacitance        | $C$           | $V_R = 0\text{ V}, f = 1\text{ MHz}$ |     | 150 |      | pF                 |
| Thermal resistance | $R_{th(j-a)}$ | Polyimide board                      |     | 390 |      | $^\circ\text{C/W}$ |
|                    |               | Ceramic board                        |     | 290 |      |                    |

### ■ Marking

|         |    |
|---------|----|
| Marking | S8 |
|---------|----|