
HSM112WK

Silicon Schottky Barrier Diode for Battery Switch

HITACHI

ADE-208-043C (Z)
Rev. 3

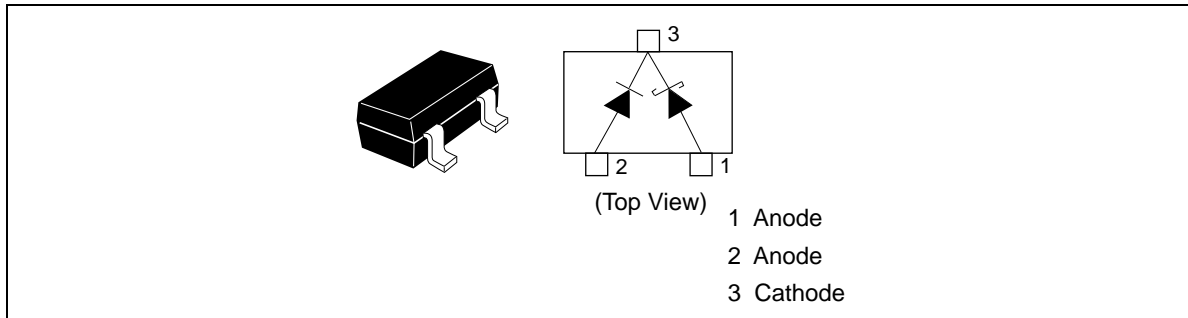
Features

- The HSM112WK has two different (V_F - I_F) chips, and can change the main battery to the backup battery automatically.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

| Type No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HSM112WK | S2 | MPAK |

Pin Arrangement



HSM112WK

Absolute Maximum Ratings (Ta = 25°C)

| Item | Symbol | Value Pin 1-3 | Value Pin 2-3 | Unit |
|----------------------|-----------|------------------|------------------|------|
| Peak reverse voltage | V_{RM} | 8 | 10 | V |
| Forward current | I_F | 30 | 30 | mA |
| Junction temperature | T_j | 125 | 125 | °C |
| Storage temperature | T_{stg} | -55 to +125 | -55 to +125 | °C |

Electrical Characteristics (Ta = 25°C)

| Item | Symbol | Min | Typ | Max | Unit | Test Condition | |
|-----------------|--------|---------|-----|-----|------|---|--------------------|
| Forward voltage | V_F | Pin 1-3 | 0.1 | — | 0.3 | V | $I_F = 1\text{mA}$ |
| | | Pin 2-3 | 0.5 | — | 0.8 | | |
| Reverse current | I_R | Pin 1-3 | — | — | 30 | μA | $V_R = 5\text{V}$ |
| | | Pin 2-3 | — | — | 0.1 | | |
| ESD-Capability | — | 225 | — | — | V | C = 200pF, RL = 100Ω , Both forward and reverse direction 5 pulse. | |

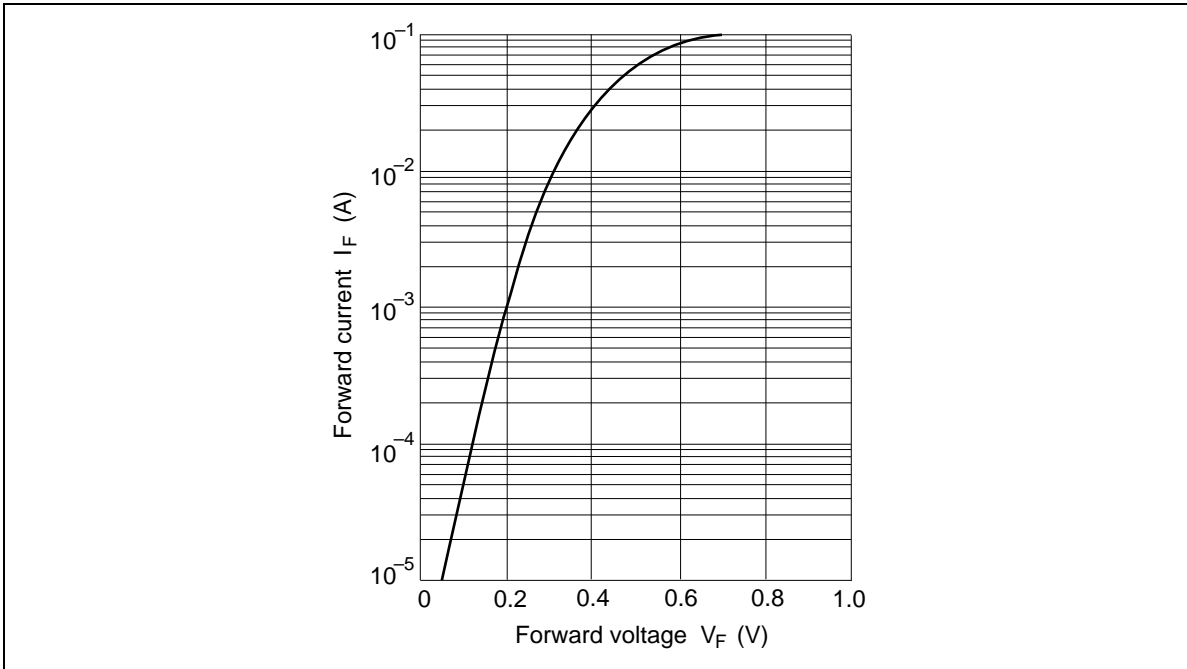


Fig.1 Forward current Vs. Forward voltage (Pin1-3)

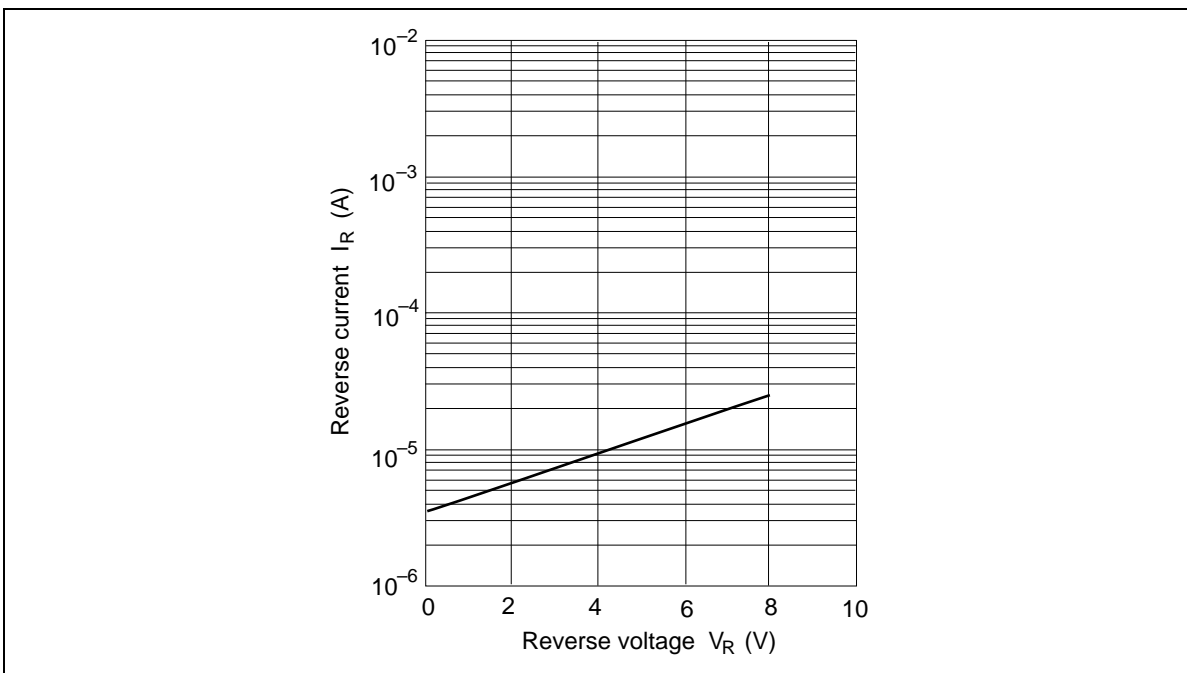


Fig.2 Reverse current Vs. Reverse voltage (Pin1-3)

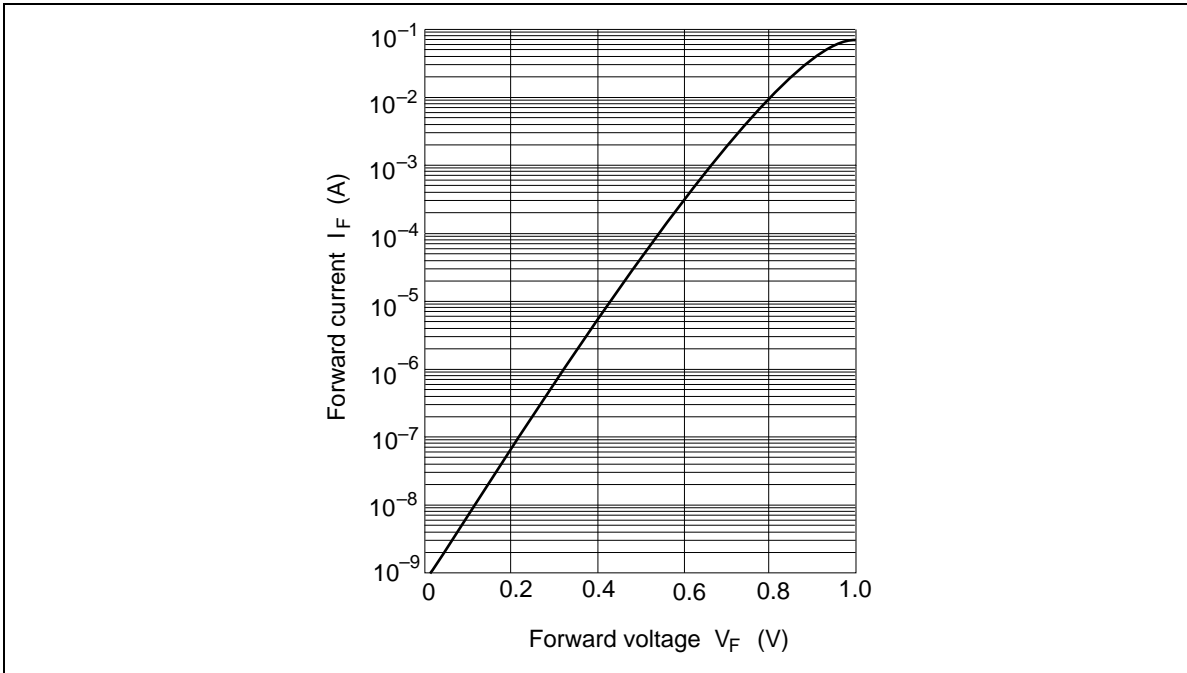


Fig.3 Forward current Vs. Forward voltage (Pin2-3)

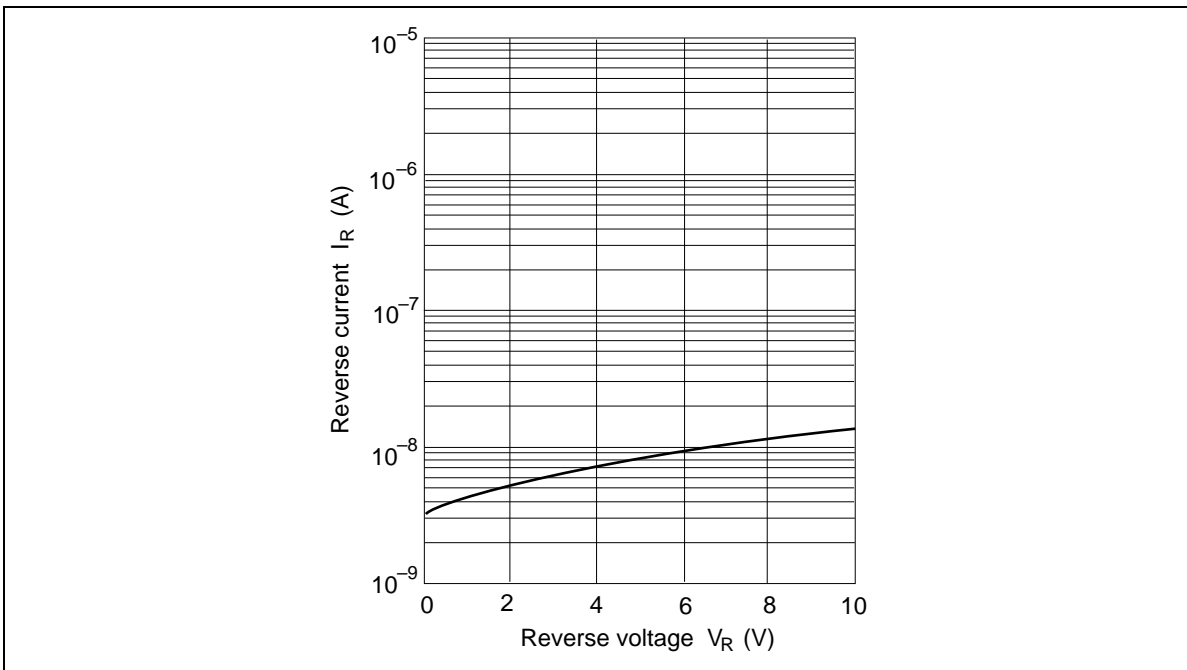


Fig.4 Reverse current Vs. Reverse voltage (Pin2-3)

Package Dimensions

