



VK36N8I Datasheet

8-channel touch I2C output

Rev.1.2

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6.2 Automatic Calibration

After power-on, the chip will be initialized to obtain the first reference value. When there is no touch, the touch chip will automatically calibrate the reference value, allowing it to change dynamically according to the external environment.

For example, reliable touch detection can be achieved through this mechanism when there are temperature changes or environmental noise.

6.3 Fool-proof function

To minimize the detection of unintentional key presses such as accidentally touching the sensing electrode, the chip is equipped with a maximum key press duration function internally. When a touch key is pressed, the internal timer starts to count. Once the key is pressed for too long, exceeding approximately 13 seconds, the touch chip will ignore the status of the touched key, recalculate it, obtain a new reference value, and simultaneously reset the output status to the initial power-on state.

6.4 Resistance to voltage fluctuations

The chip is equipped with an anti-voltage fluctuation function, which can prevent the touch keys from malfunctioning due to the sudden drop in working voltage caused by the large current drive from the outside.

