

## NEC芯片原理图—低电压检测

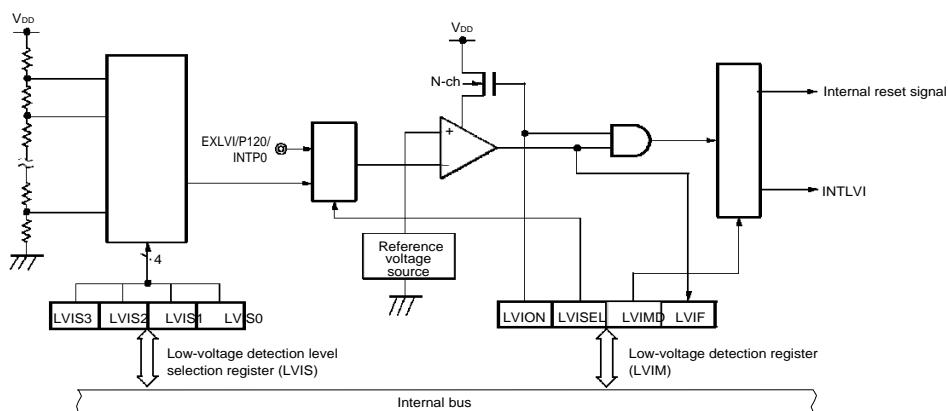
### 2.1.3 Low-Voltage Detect (LVI)

The low-voltage detect (LVI) function offers the following features:

- ② Selectable reset or interrupt operation for low-voltage condition
- ② Ability to check VDD or the voltage on an external input pin
- ② Selectable VDD from 16 voltage levels

The low-voltage detect circuit compares a voltage against an internal reference and generates an internal interrupt or internal reset when the voltage falls below the reference value. The circuit can compare against VDD, tapping off of a resistor divider to select a specific voltage. The low-voltage detect circuit also supports an external input, EXLVI, generating an interrupt or reset when the voltage on this pin drops below the reference voltage of 1.21V.

**Figure 5. Low-Voltage Detector Block Diagram**



**Table 2. Registers Controlling Low-Voltage Detect**

Registers	Symbol	Description of Functions
Low-voltage detection register	LVIM	Sets low-voltage detection and operation mode
		Enable/disable low-voltage detection
		Select internal or external input (EXLVI)
		Set low-voltage operation mode and flag
Low-voltage detection level Selection register	LVIS	Selects low-voltage detection level
		Selects up to 16 levels
Port-mode register	PMx	Sets port mode to input or output for EXLVI pin

To configure low-voltage detection when using reset mode:

- ② Set the LVIMK bit in the MK0L register to mask the LVI interrupt.
- ② Clear the LVIIF interrupt flag in the IF0L register.
- ② Disable the LVI detector by clearing the LVION bit in the LVIM register.