

## Temperature Switch

# MM3688



### Outline

This IC is a temperature switch IC that changes the output level from Low to High when the temperature around the IC reaches the detection temperature (Active High), and has the hysteresis function. Detection temperature (TDET) can be selected in 1.0°C steps between the range of 60 to 90°C with rank expansion, with detection temperature accuracy of  $\pm 2.0^\circ\text{C}$ . This product achieves an ultra-low current consumption of 0.12  $\mu\text{A}$  typ., Which is ideal for mobile products that are concerned about power consumption.

### Applications

Wearable      Flat TV      PC Display  
Smart Phone      Digital camera  
Tablet PC      Digital Video Camera

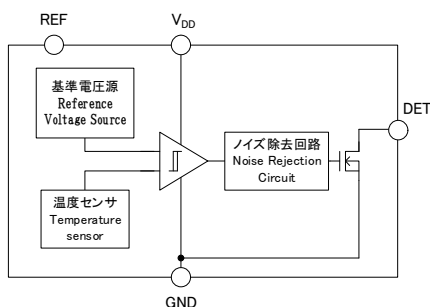
### Features

- ① High Temperature accuracy  $\pm 2.0^\circ\text{C}$
- ② Low current consumption  $\cdots 0.12\mu\text{A typ}$
- ③ Small Package  $\cdots$  PLP-4A
- ④ Hysteresis : MM3688B  $\cdots 10^\circ\text{C}$   
MM3488C  $\cdots 15^\circ\text{C}$   
MM3488D  $\cdots 20^\circ\text{C}$   
MM3488E  $\cdots 25^\circ\text{C}$

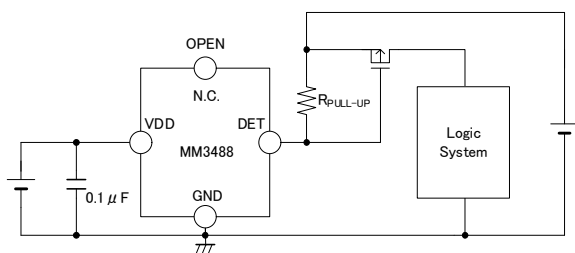
### Specification

項目	仕様	単位
Operating ambient temperature	$-40 \sim +125$	$^\circ\text{C}$
Operating voltage	1.6 $\sim$ 5.0	V
Supply current	0.12 (typ.)	$\mu\text{A}$
Temperature accuracy	$\pm 2.0$ (1.6V $\sim$ 3.3V)	$^\circ\text{C}$
Hysteresis temperature	10.0 ( $T_{\text{HYS}}=10^\circ\text{C typ.}$ )	$^\circ\text{C}$
	15.0 ( $T_{\text{HYS}}=15^\circ\text{C typ.}$ )	
	20.0 ( $T_{\text{HYS}}=20^\circ\text{C typ.}$ )	
	25.0 ( $T_{\text{HYS}}=25^\circ\text{C typ.}$ )	

### Block Diagram



### Application circuit



### Package

SSON-4B

