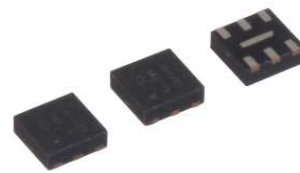


Temperature Switch

MM3588



Outline

This IC is a temperature switch IC that senses the ambient temperature of the IC and switches the IC output at the detected 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 IC has a enable pin (CE) for output ON and OFF.

Applications

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

Features

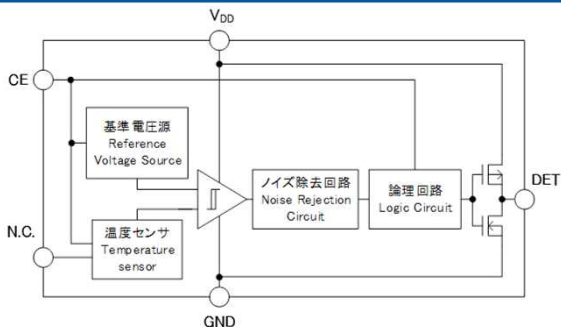
- ① High Temperature accuracy $\pm 2.0^\circ\text{C}$
- ② Low current consumption $\dots 1.5\mu\text{A}$ typ
- ③ Small Package \dots SSON-6J
- ④ With enable pin for output control ON and OFF (CE)
- ⑤ Hysteresis : (Active High)

MM3588A $\dots 5^\circ\text{C}$
 MM3588B $\dots 10^\circ\text{C}$
 MM3588C $\dots 15^\circ\text{C}$

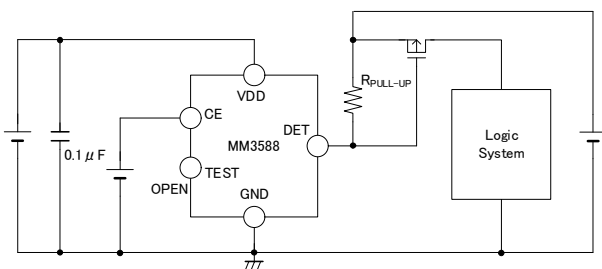
Specification

Item	Specification	Unit
Operating ambient temperature	$-30 \sim +125$	$^\circ\text{C}$
Operating voltage	$1.6 \sim 5.0 (+60 \sim +90^\circ\text{C})$	V
Supply current	1.5 (typ.)	μA
Temperature accuracy	-2.0 to 2.0	$^\circ\text{C}$
Hysteresis temperature	5.0 ($T_{\text{HYS}}=5^\circ\text{C}$ typ.)	$^\circ\text{C}$
	10.0 ($T_{\text{HYS}}=10^\circ\text{C}$ typ.)	
	15.0 ($T_{\text{HYS}}=15^\circ\text{C}$ typ.)	
CE high threshold voltage	$1.4 \sim V_{\text{CC}}+0.3$	V
CE low threshold voltage	$0 \sim 0.2$	V
CE response time	200 max	μS

Block Diagram



Application circuit



Package

SSON-6J

