

Temperature Switch IC with Enable

# 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  $1.0^{\circ}$ C steps between the range of 60 to  $90^{\circ}$ C with rank expansion, with detection temperature accuracy of  $\pm 2.0^{\circ}$ 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**

- High Temperature accuracy ±2.0℃
- 2 Low current consumption ···1.5µAtyp
- ③ Small Package⋯SSON-6J
- 4 With enable pin for output control ON and OFF (CE)
- ⑤ Hysteresis: (Active High)

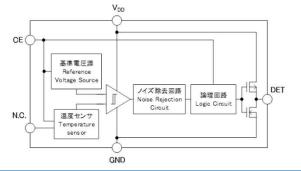
MM3588A…5℃ MM3588B…10℃

MM3588C···15℃

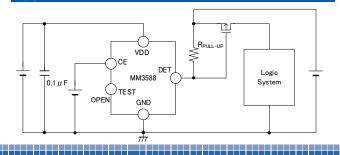
#### **Specification**

Item	Specification	Unit
Operation temperature	-30 ∼ +125	$^{\circ}$
Operating voltage	1.6 ~ 5.0 (+60~+90℃)	٧
Supply current	1.5 (typ.)	μΑ
Temperature accuracy	-2.0 to 2.0	$^{\circ}$
Hysteresis temperature	5.0 (T <sub>HYS</sub> =5℃ typ.)	
	10.0 (T <sub>HYS</sub> =10℃ typ.)	${\mathbb C}$
	15.0 (T <sub>HYS</sub> =15℃ typ.)	
CE high threshold voltage	$1.4 \sim Vcc+0.3$	٧
CE low threshold voltage	$0 \sim 0.2$	V
CE response time	200 max	μS

# **Block Diagram**

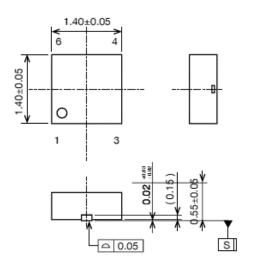


# **Application circuit**



# **Package**

SSON-6J



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