MITSUMI

Temperature Switch IC with Hysteresis

MM3488

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, active low), and has the hysteresis function. The detection temperature (TDET) can be selected in 1.0°C steps between 25 °C to 90 °C high temperature detection type and between -20 to +24 °C low temperature detection type, with detection temperature accuracy of ± 2.0 °C.

Applications

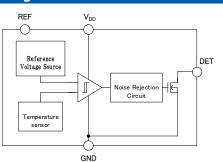
Applications		
Wearable	Flat TV	PC Display
Smart Phone	Digital camera	
Tablet PC	Digital Video Camer	га

Features

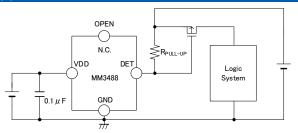
- ① High Temperature accuracy ± 2.0 ℃
- 2 Low current consumption $\cdots 1.5 \mu Atyp$
- ③ Small Package · · · SSON-4B

④ Hysteresis :	⋇Ex. High te	mperature type	
 Active High 		 Active Low 	
MM3488A	···5℃	MM3488G••	•5℃
MM3488B	…10℃	MM3488H…	•10℃
MM3488C	···15℃	MM3488I ••	•15℃

Block Diagram

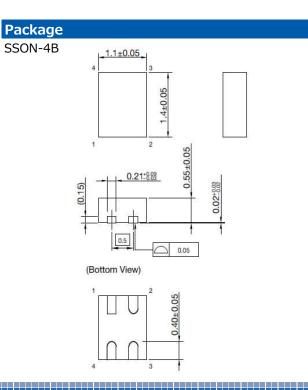


Application circuit



Specification

Item	Specification	Unit	
Operation temperature	$-30 \sim +105$	°C	
Operating voltage	1.6 ~ 5.0 (+60~+90℃)	V	
	$2.2 \sim 5.0 \ (-20 \sim +60 \degree)$	v	
Supply current	1.5 (typ.)	μA	
Temperature accuracy	-2.0 to 2.0 (1.6V~3.3V.)	Ĵ	
	-1.5 to 2.5 (3.3V~5.0V)	L	
Hysteresis temperature	5.0 (T _{HYS} =5℃ typ.)		
	resis temperature 10.0 (T_{HYS} =10°C typ.)		
	15.0 (T _{HYS} =15℃ typ.)		



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