Absolute Maximum Rating	S
-------------------------	---

Item	Absolute maximum ratings	Terminal
Applied voltage	-0.3 V.DC to 6.5 V.DC	VDD
Input voltage	-0.3 V.DC to VDD +0.3 V.DC	SCL, SDA, AD_SELECT
Output sink current	-10 mA to 10 mA	INT, SDA
Static electricity (Human body model)	1 kV	All terminals
Static electricity (Machine model)	200 V	All terminals

Characteristics

Item	Performance	
	High gain	Low gain
Temperature accuracy	Typical ±2.5 °C ±4.5 °F	Typical ±3.0 °C ±5.4 °F
Human detection distance *1	Max. 7 m 22.966 ft	
Viewing angle	Typical 60 °	
Optical axis gap	Within Typical ±5.6 °	
Current consumption	Typical 4.5 mA (normal mode) Typical 0.2 mA (sleep mode) Typical 0.8 mA (stand-by mode)	
Setup time	Typical 50 ms (Time to enable communication after setup) Typical 15 s (Time to stabilize output after setup)	

Note: ***1** To have more than 4 °C 7.2 °F of temperature difference from background

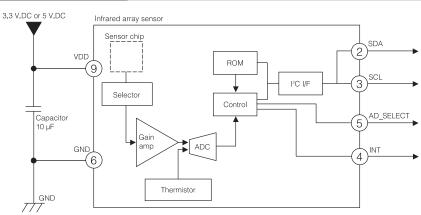
Detection object size: 700 imes 250 mm 27.559 imes 9.843 inch (Assumable human body size)

Performance

Item	Performance	
Number of pixel	64 (Vertical 8 × Horizontal 8 Matrix)	
External interface	I ² C (fast mode)	
Frame rate	Typical 10 frames/sec or 1 frame/sec	
Operating mode *1	Normal Sleep Stand-by (10 sec or 60 sec intermittence)	
Output mode	Temperature output	
Calculate mode	No moving average or Twice moving average	
Temperature output resolution	0.25 °C	
Number of sensor address	2 (I ² C slave address)	
Thermistor output temperature range	–20 °C to 80 °C –4 °F to +176 °F	
Thermistor output resolution	0.0625 °C	

Note: *1 Normal Mode : normal operation mode; Sleep Mode: detection is off (output and data reading not possible); Standby Mode: 1 frame measuring intermittently every 10 or 60 sec.

Internal Circuit



* INT terminal ④ normally has same voltage as VDD. When interrupting, same as GND (0V)

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panasonic: AMG8834 AMG8853 AMG8833 AMG8854