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Product Search Data Sheet

IRS-D200ST00R1

In Production   Recommended   New   RoHS   REACH

Applications

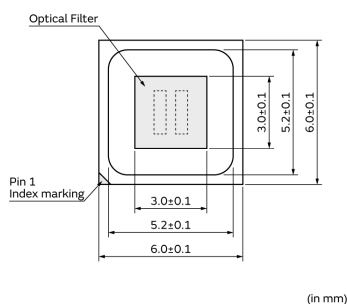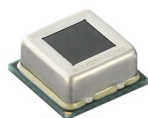| Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Consumer equipment Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product.
Recommended Applications	IP Camera,Doorbell,Thermostat,Smart Home,LED Light,HVAC,IoT Equipment, Security Equipment,White Goods

Appearance & Shape

(in mm)

Packaging Information

Packaging	Specifications	Standard Packing Quantity
R1	Reel	2000

Features

Small size, low-profile SMD type with high design flexibility
Reflow-available, saving process costs
Built-in amplifier and ADC, digital output (I2C) for easy design
Interrupt function contributes power consumption reduction

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IRS-D200ST00R1

Specifications

Shape	SMD
Dimensions	6.0x6.0x2.6mm
Output Type	Digital
Electrode	(2.0x0.5mm)×2
Responsivity(typ.)	19.5mV0p
Current Consumption	8µA
Supply Voltage Range	1.8V to 3.3V
Field of View	X-axis=55°/Y-axis=42°
Operating Temperature (°C)	-25℃ to 85℃
Storage Temperature Range	-40℃ to 85℃

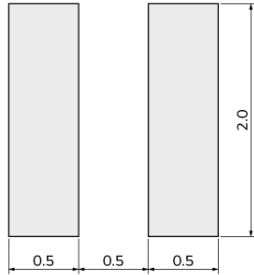> SMD TYPE IRS-D200ST00R1

Attention

1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

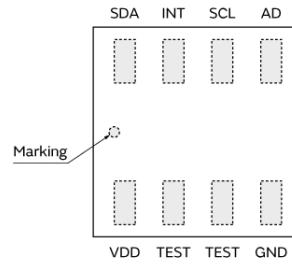2.This datasheet has only typical specifications because there is no space for detailed specifications.

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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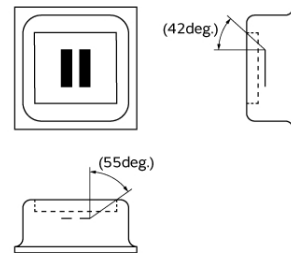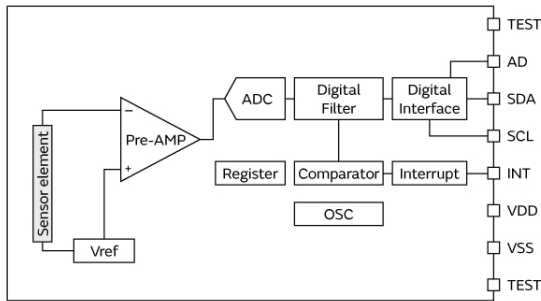
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Product Search Data Sheet

Note: If you have not downloaded this document from our official website, please note that the information provided may not be the most current.
Please download the latest datasheet of IRS-D200ST00R1 from the official website of Murata

http://www.murata.com/en-gb/products/productdetail?partno=IRS-D200ST00R1

IRS-D200ST00R1

Product Data

Pyroelectric Element(Electrode Dimension)

2.0

0.5 0.5 0.5

(in mm)

Pin configuration

SDA INT SCL AD

Marking

VDD TEST TEST GND

Block diagram

Sensor element
Pre-AMP
Vref
ADC
Digital Filter
Digital Interface
Register
Comparator
Interrupt
OSC

TEST
AD
SDA
SCL
INT
VDD
VSS
TEST

Field of View

(42deg.)

(55deg.)

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