# Ultra-compact Surface Mount Remote Control Photoreceiver Module RPMS2401-H19

#### Outline

ROHM's RPMS2401-H19 photoreceiver, utilizing original miniaturization technology, features the smallest\* mounting area in the world. In addition, the S/N ratio in broad daylight is significantly improved due to ROHM's unique optical technology.

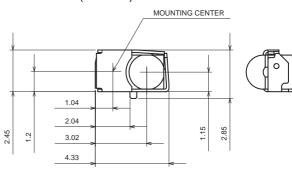
## Applications

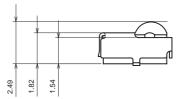
All types of portable devices, including digital still and video cameras, car navigation equipment, laptops, and gaming consoles

#### Features

- 1) Smallest mounting area in the world (9mm<sup>2</sup>)
- 2) Resistant to sunlight noise
- 3) Low power consumption: 950µA (in standby mode)

#### ●Dimensions (Unit: mm)





#### ● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit	Conditions
Supply Voltage	Vcc	6.3	V	
Output Current	lo	2.0	mA	
Storage temperature	Tstg	-40 to +100	°C	
Operating temperature	Topr	-40 to +85	°C	No condensation

\* Jan.07 ROHM study

# Photo Link Module

# ●Electrical, Optical characteristics (Ta = 25°C)

Recommended operating conditions

Parameter	Symbol	Min.	Тур.	Max.	Unit
Supply voltage	Vcc	4.5	5.0	5.5	V

### Characteristics

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Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Consumption Current	lcc	_	0.95	1.5	mA	No outside light, No signal input
Effective Distance	L	5	8	-	m	*1 Outer light condition Ee<10 (lx)
High Level Output Voltage	Vн	4.5	-	-	V	*1
Low Level Output Voltage	VL	-	-	0.5	V	*1 I sink 200μA
ON Pulse Width	Ton	400	600	800	μs	*1 Outer light condition Ee<10 (lx)
OFF Pulse Width	Toff	400	600	800	μs	*1 Outer light condition Ee<10 (lx)
Center frequency	fo	-	40.0	-	kHz	
Horizontal half angle	θ1/2	-	34	-	deg	*2
Vertical half angle	θ1/2	-	32	-	deg	*2

<sup>\*1 600/600</sup>μs burst wave is transmitted by standard transmitter.

However, it must be measured after the initial transmission pulse is 10 pulse.

<sup>\*2</sup> It is an angle when the linear arrival distance become half.

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