Ultra-compact, Ultra-thin Side View FIR-compatible IrDA Module with Built-in Remote Control Transmission Function

RPM973-H11

●Outline

The RPM973-H11 is a high performance IrDA module that integrates an infrared remote control transmission function and a high-speed (4Mbps) FIR-compatible IrDA module into the world's smallest* package, resulting in substantial space savings.

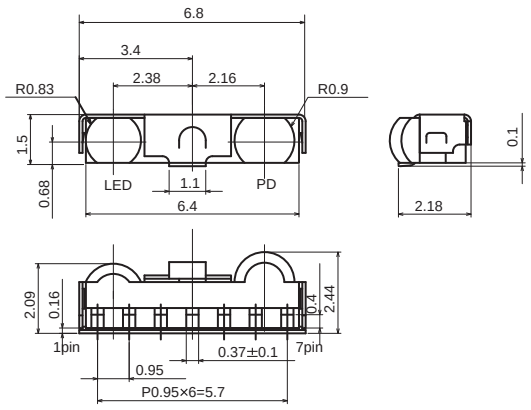
●Applications

All types of data communication, including, image data and music transmission data in mobile phones, digital still cameras, and printers

●Features

1) Equipped with a remote control function
2) World's smallest* package (6.8x2.44x1.5mm)
3) 4Mbps FIR-compatible (faster speeds possible with Ir Simple)

●Dimensions (Unit : mm)



●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	Vcc / VLEDA / VIO	6.5 *1	V
Input voltage	Vin(3,4,5pin)	–0.3 to VIO+0.3	V
Operation temperature	Topr	–25 to +85	°C
Storage temperature	Tstg	–40 to +100	°C

*1) This applies to all pins basis ground pin (7pin).

* Jan.07 ROHM study

●**Electrical Optical characteristics** (Ta = 25°C)

Recommended operating conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Supply voltage	Vcc	2.4	3.0	3.6	V
	VLEDA	2.7	3.0	5.5	V
	VIO	1.7	3.0	Vcc	V

Electrical Optical Characteristics(Unless otherwise noted, Vcc=3V, VLEDVCC=3V, VIO=3V, Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Consumption Current2(FIR Mode)	Icc2	400	1000	1600	μA	PWDOWN=0V, At no input light
Consumption Current3(at PWDOWN)	Icc3	–	0.01	0.2	μA	PWDOWN=VIO, At no input light
LED anode current	ILED	180	250	300	mA	
Receiver latency time	tRT	–	100	200	μs	
Peak wavelength	λP	880	890	900	nm	
Intensity	IE1	25	65	–	mW/Sr	$-15deg \leqq \theta_L \leqq 15deg$
Half-angle	θL/2	±15	–	–	deg	
Minimum irradiance in augular2	Eemin2	–	–	20.3	μW/cm²	$-15deg \leqq \theta_L \leqq 15deg$, >115.2kbps
Input half-angle	θD/2	±15	–	–	deg	

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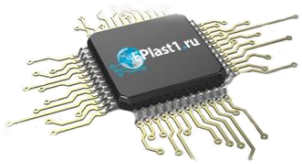
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