

IrDA 115 kbps/0.8 m Compliant, Compact, Thin Front-End

Features

- Compact (Volume: 48 % smaller than the conventional models)
- Thin-type (Height: 27 % thinner than the conventional models)
- Excellent noise resistance (equipped with a shielded case)
- Low dissipation current: I_{CC} (MAX.)=130 μ A

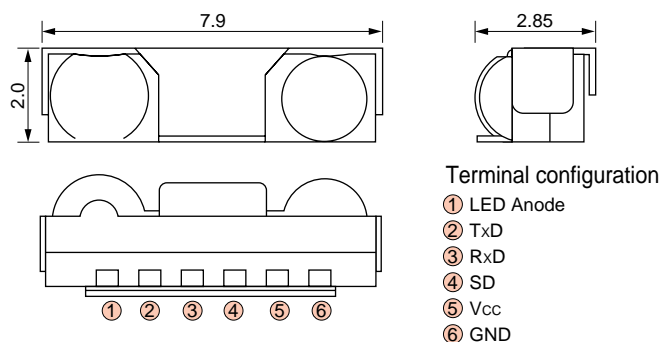
Applications

- PDA
- Cellular phone
- Hand-held PC
- Handy terminal
- Handy printer
- Portable game machine

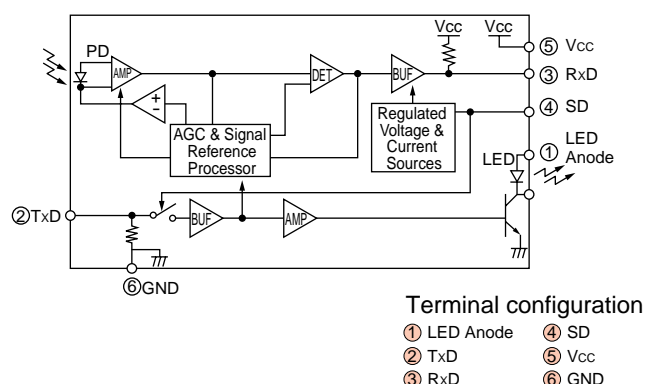
Specifications

Parameter	Symbol	Characteristics			Unit	Condition
		MIN.	TYP.	MAX.		
Operating supply voltage	VCC	2.4	—	5.5	V	
Dissipation current	I_{CC}	—	110	130	μ A	
SD dissipation current	I_{CC-S}	—	0.01	1.0	μ A	VCC=3.3 V
High-level output voltage	VOH1	4.3	4.6	—	V	VCC=5.0 V, IOH=(500 μ A)
Low-level output voltage	VOL1	—	0.22	0.4	V	VCC=5.0 V, IOH=(500 μ A)
Delay time	t ₁	—	100	200	μ s	
Radiant intensity	IE	40	—	—	mW/sr	VCC=VLED=5.0 V, RL=(5.1 Ω)
Peak wavelength	λ_P	850	870	900	nm	
Operating temperature	T _{opr}	-25	—	85	°C	
Transmission distance	L	(0.8)	—	—	m	$\theta=\pm 15^\circ$
		1	—	—	m	$\theta=\pm 0^\circ$

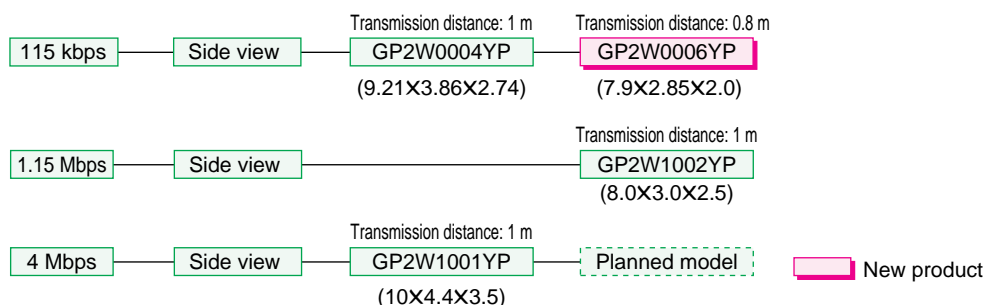
Outline Dimensions (Unit: mm)



Block Diagram



Line-up of Infrared Data Communication Device



Notice:

- In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP devices.
- Specifications are subject to change without notice for improvement.