GP1A05HR/GP1A22HR

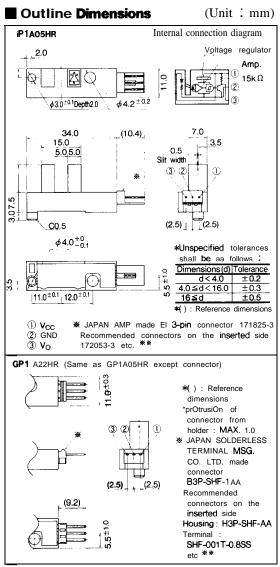
OPIC **Photointerrupter** with Connector

Features

- 1. 3-pin connector-terminal
- 2. High sensing accuracy (Slit width: 0.5mm)
- 3. Wide gap between light emitter and detector (5mm)

, Applications

- 1. Copiers
- 2. Printers
- 3. Facsimiles



* "OPIC" (OpticalIC) is a trademark of the SHARP Corporation AnOPIC consists of a light-detecting element and signalprocessing circuit integrated onto a single chip.

Recommended connectors on the inserted side are shown on the page after next

Absolute Maximum Ratings (Ta=25°C)

Parameter	Svmbol	Rating	Unit			
	V_{CC} $ -0.$.5 to 8	V			
*1 Low level output current IoL I 50 mA						
*'Operating temperature T _{opr} -20 to +75 °C						
*2Storage temperature	T _{stg} 1-4	40 to +	85 °C			

*1 Collector current of output transistor

*2 The connector should be plugged in/out at normal temperature

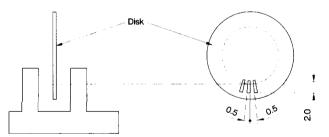
Electro-optical Characteristics

 $(V_{cc}=5V, Ta=25^{\circ}C)$

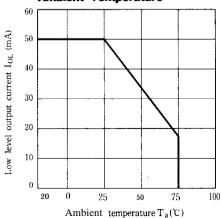
Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Operating supply voltage	Vcc		4.5	-	5.5	V
Low level supply current	I _{CCL}	Light beam interrupted	-	_	30	mA
Low level output voltage	Vol	Light beam interrupted, $I_{OL} = 16 \text{mA}$	-	-	0.4	v
High level supply current	ICCH	Light bem uninterrupted	-	1	30	mA
High level output voltage	Voh	Light beam uninterrupted	VCCXO.9	-		v
*4 Responxe Frequent y	f	*3	—	_	3000	Hz

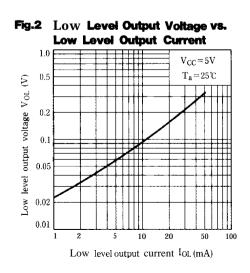
*3 NO DC output is allowed.

*4 Response frequency is measured with the disk shown below being rotated. (Unit : mm)

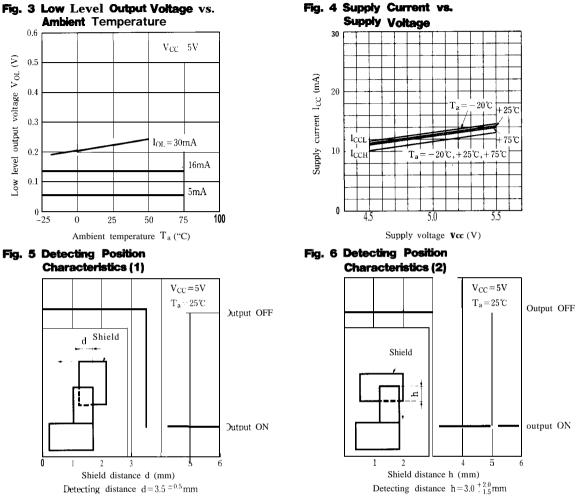








669



RecommendedConnectors on the Inserted Side

Recommended connector for GP1A05HR is same as GP1 A05's. Recommended connector for GP1 A22HR is same as GP1 A23LC'S. (Refer to page 667.)

Precautions for Use

- (1) It is recommended that a by-pass capacitor of more than 0.01 μ F be added between V_{cc} and GND near the device in order to stabilize power supply line.
- (2) In this product, the PWB is fixed with a resin cover, and cleaning solvent may remain inside the case ; therefore, dip cleaning or ultrasonic cleaning is prohibted.
- (3) Remove dust or stains, using an air blower or a soft cloth moistened in cleaning solvent. However, do not perform the above cleaning using a soft cloth with cleaning solvent in the marking portion.

In this case, use only the following type of cleaning solvent used for wiping off: Ethyl alcohol, Methyl alcohol, Isopropyl alcohol

When the cleaning solvents expect for specified materials are used, please consalt us.

(4) As for other general cautions, refer to the chapter "Precautions for Use" (Page 78 to 93)