

Under development	
New product	●

## GP1FA512TZ/GP1FA512RZ Fiber Optic Trasmmitter/Receiver

### Shutter System Optic Transmitter/Receiver

#### ■ Features

- (1) Shutter system unnecessary to remove the protection cap
- (2) Uni-directional data transmission using plastic fiber
- (3) High transfer rate : T=13.2 Mbps
- (4) The optical receiver can be directly connectable the TTL, due to the use of \*OPIC.

\* "OPIC" (Optical IC) is a trademark of the SHARP Corporation. An OPIC consists of a light-detecting element and signal-processing circuit integrated onto a single chip.

\*\* Sharp's GP1C331/GP1C331A/GP1C335 is recommended for optical fiber cable.

#### ■ Applications

- (1) DVD players
- (2) CD players
- (3) MD players

#### ■ Specifications

Parameter	Symbol	GP1FA512TZ(transmitter)	GP1FA512RZ(receiver)
Supply voltage	Vcc	4.75 to 5.25 V	
Supply current	Icc	MAX. 13 mA	MAX. 25 mA
Output optical power couple into fiber	Pc	MIN. -21 dBm	-
Receiver input optical power level	Pc	-	MIN. -24 dBm
Jitter	$\Delta t_j$	TYP. 1ns	
Operating transfer rate	T	MAX. 13.2 Mbps (NRZ signal, duty 50%)	
Operating temperature	Topr	-20 to +70°C	

(Ta=25°C)

As of September, 2001

(Notice)

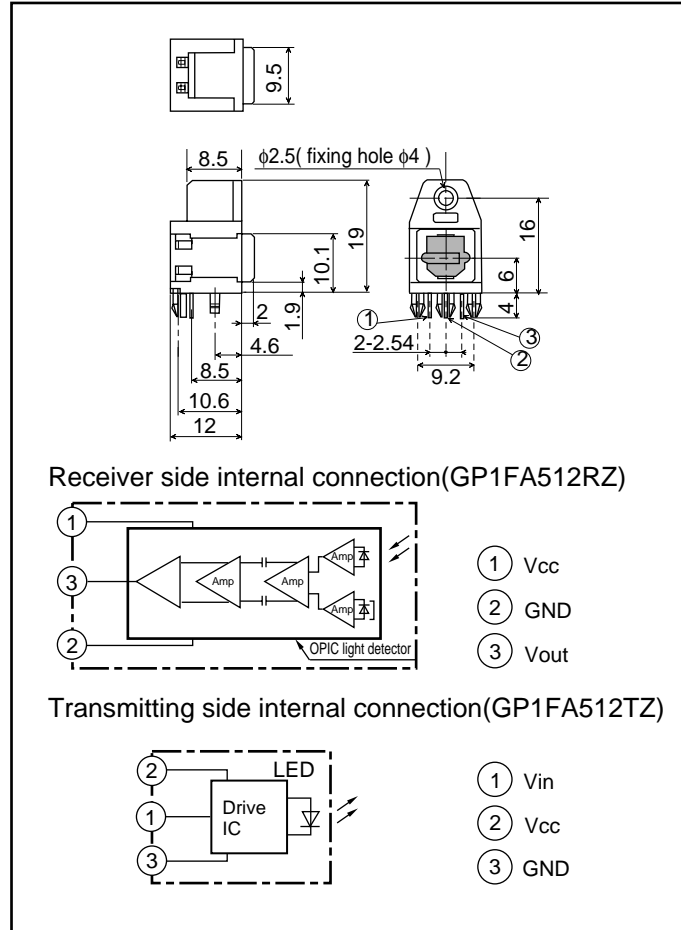
- In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.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

(Internet)

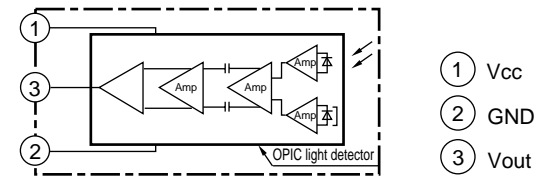
- Data for Sharp's optoelectronic/power devices is provided on internet. ( Address <http://sharp-world.com/ecg/>)

#### ■ Outline Dimensions

(Unit : mm)



Receiver side internal connection(GP1FA512RZ)



Transmitting side internal connection(GP1FA512TZ)

