

# GP2D12/GP2D15

# Distance Measuring Sensors

## General Purpose Type Distance Measuring Sensors

### General Description

SHARP's **GP2D12/GP2D15** are general purpose type distance measuring sensors which consist of PSD\* and infrared emitting diode and signal processing circuit. It enables to detect objects without any influence on the color of reflective objects, reflectivity, the lights of surroundings.

\*PSD:Position Sensitive Detector

### Features

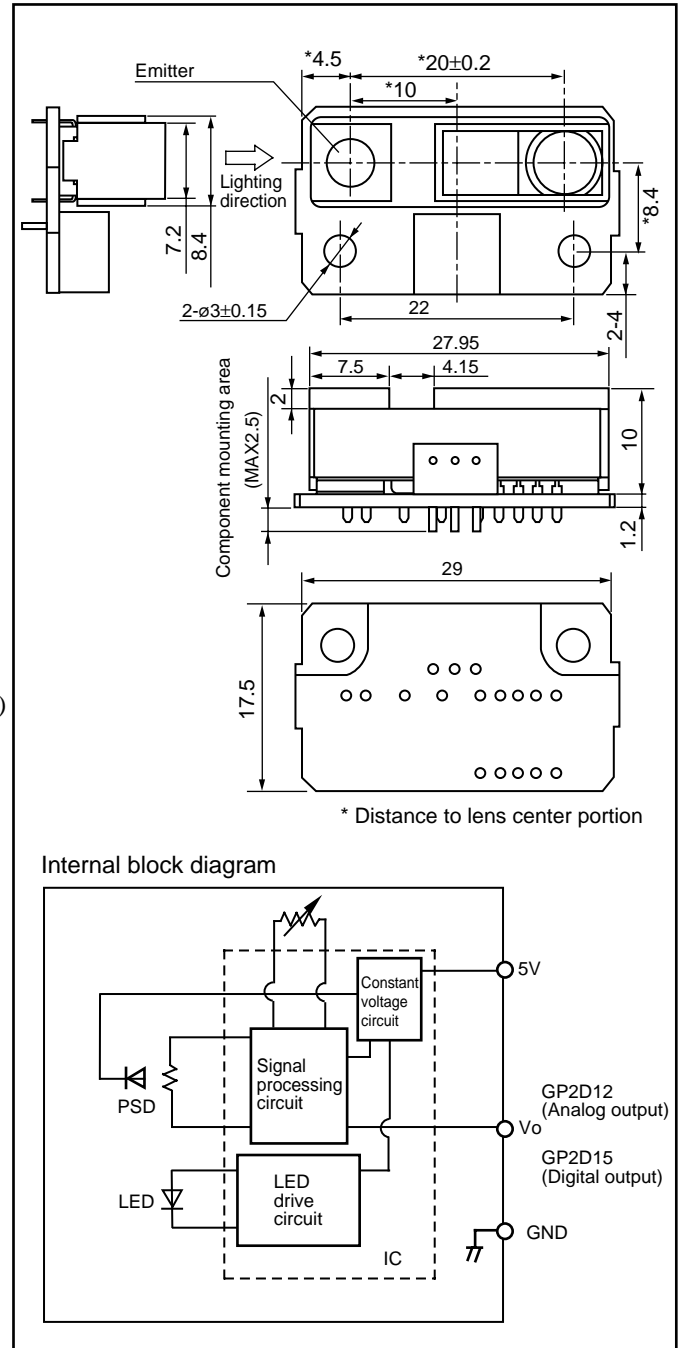
- (1) Less influence on the color of reflective objects, reflectivity
- (2) Line-up of distance output/distance judgement type  
 Distance output type(analog voltage) : **GP2D12**  
 Detecting distance : 10 to 80cm  
 Distance judgement type : **GP2D15**  
 Judgement distance : 24cm (Adjustable within the range of 10 to 80cm)
- (3) External control circuit is unnecessary.
- (4) Low cost

### Applications

- (1) TVs
- (2) Personal computers
- (3) Cars
- (4) Copiers

### Outline Dimensions

(Unit : mm)



(Notice) • In the absence of device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP device 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 device is provided on internet. (Address <http://www.sharp.co.jp/ecg/>)

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### ■ Specifications

#### GP2D12

(Ta=25°C)

Parameter	Symbol	Rating
Supply voltage	Vcc	4.5 to 5.5V
Dissipation current	Icc	MAX.35mA
Measuring range	L	10 to 80cm
Output type	—	Analog output
Operating temperature	Topr	-10 to +60°C

#### GP2D15

(Ta=25°C)

Parameter	Symbol	Rating
Supply voltage	Vcc	4.5 to 5.5V
Dissipation current	Icc	MAX.35mA
*Judgement distance	L	TYP.24cm
Output type	—	Digital output
Operating temperature	Topr	-10 to +60°C

\* Adjustable within the range of 10 to 80cm.<Custom products>

### ■ Output pattern

