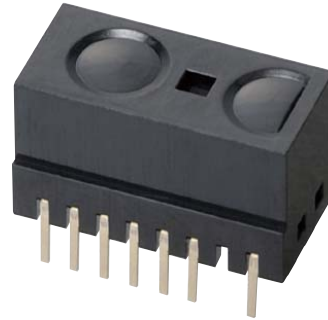


# GP2Y0D805Z0F

Distance Measuring Sensor Unit  
Digital output (50 mm) type



## ■Description

**GP2Y0D805Z0F** is a distance measuring sensor unit, composed of an integrated combination of PSD (position sensitive detector), IRED (infrared emitting diode) and signal processing circuit.

The variety of the reflectivity of the object, the environmental temperature and the operating duration are not influenced easily to the distance detection because of adopting the triangulation method.

The output voltage of this sensor stays high in case an object exists in the specified distance range. So this sensor can also be used as proximity sensor.

## ■Features

1. Digital output type
2. Short distance type  
Detecting distance : Typ. 50 mm
3. Low profile  
Package size : 13.6×7×7.95 mm
4. Consumption current : Typ. 5 mA
5. Battery drive compatible  
Supply voltage : 2.7 to 6.2 V
6. Sunlight tolerance
7. Add Vin terminal, and an external transistor of Vcc line is unnecessary at intermittent operating.

## ■Agency approvals/Compliance

1. Compliant with RoHS directive (2002/95/EC)

## ■Applications

1. Touch-less switch  
(Sanitary equipment, Control of illumination, etc.)
2. Robot cleaner

Notice The content of data sheet is subject to change without prior 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.

