

# LT-GDM-02-S

## Ground-Detecting Module

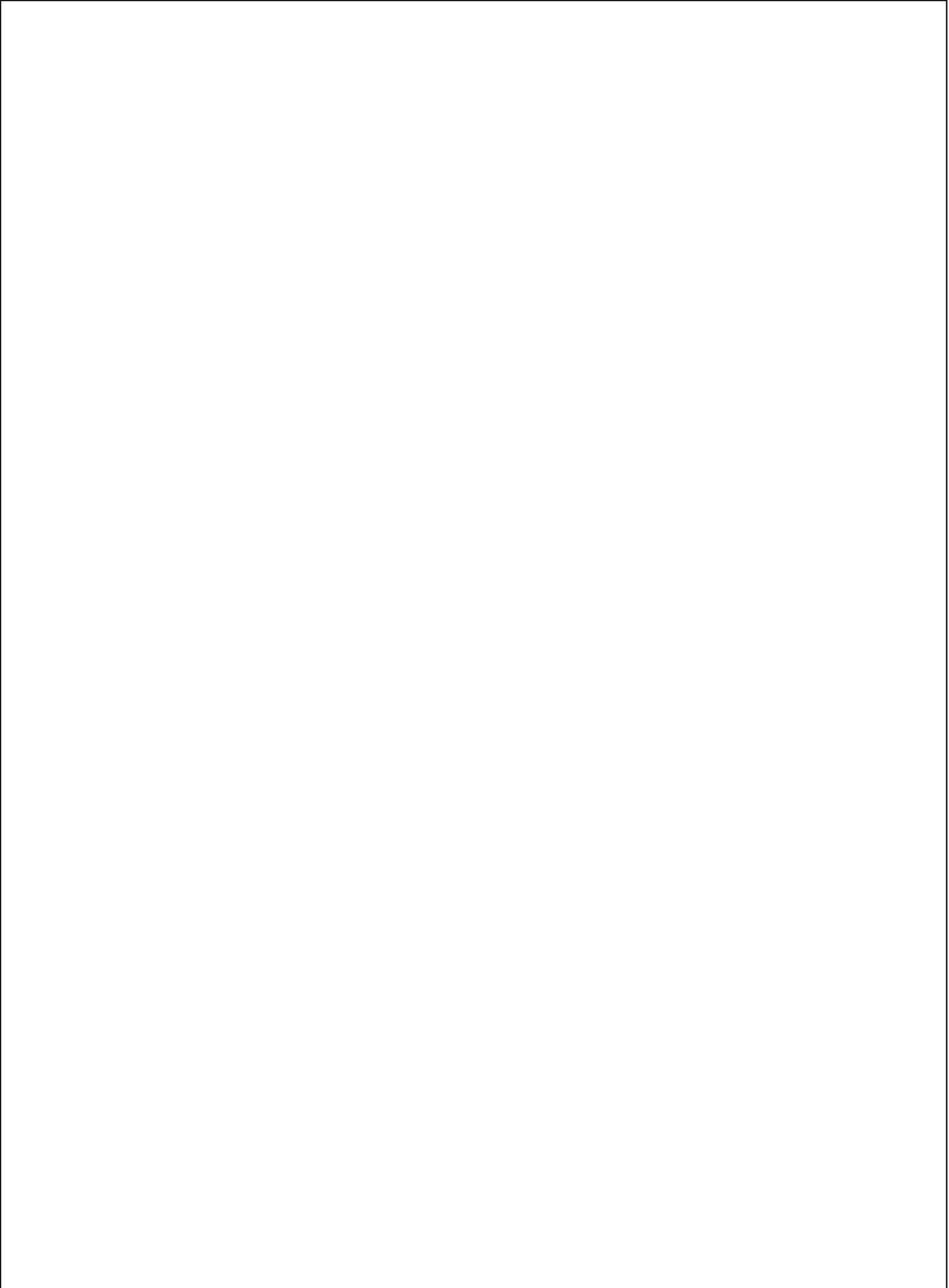
### Product Specifications

SPEC. NO. : SZ22080201  
DATE : 2022/08/02  
REV. : A/0

Approved By:

Checked By:

Prepared By:



## Features

- ◆ Pb free product—RoHS compliant
- ◆ Fast response time
- ◆ High sensitivity
- ◆ Invisible wavelength  $\lambda=940\text{nm}$
- ◆ Integration structure
- ◆ The four pins of the connector and the corresponding PCB pads are painted with tri-proof paint

## Typical Applications

- ◆ Intelligent Sweeping Robot

## Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

| Parameter                     |                                    | Symbol    | Ratings                                    | Unit             |
|-------------------------------|------------------------------------|-----------|--|------------------|
| Input                         | Power Dissipation                  | $P_d$     | 170  | mW               |
|                               | Reverse Voltage                    | $V_R$     | 5  | V                |
|                               | Forward Current                    | $I_F$     | 100  | mA               |
|                               | Peak Forward Current <sup>*1</sup> | $I_{FP}$  | 250  | mA               |
| Output                        | Collector Power Dissipation        | $P_c$     | 75   | mW               |
|                               | Collector Current                  | $I_C$     | 20   | mA               |
|                               | Collector-Emitter Voltage          | $V_{CEO}$ | 30   | V                |
|                               | Emitter-Collector Voltage          | $V_{ECO}$ | 5  | V                |
| Electrostatic Discharge (HBM) |                                    | ESD       | 4000                                       | V                |
| Operating Temperature Range   |                                    | $T_{opr}$ | $-25^\circ\text{C}$ to $+65^\circ\text{C}$ | $^\circ\text{C}$ |
| Storage Temperature Range     |                                    | $T_{stg}$ | $-40^\circ\text{C}$ to $+85^\circ\text{C}$ | $^\circ\text{C}$ |

Note: 1. Pulse width 0.1msec, duty cycle 1/2.

