

# **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.

