

LT-GDM-02-S

Ground-Detecting Module

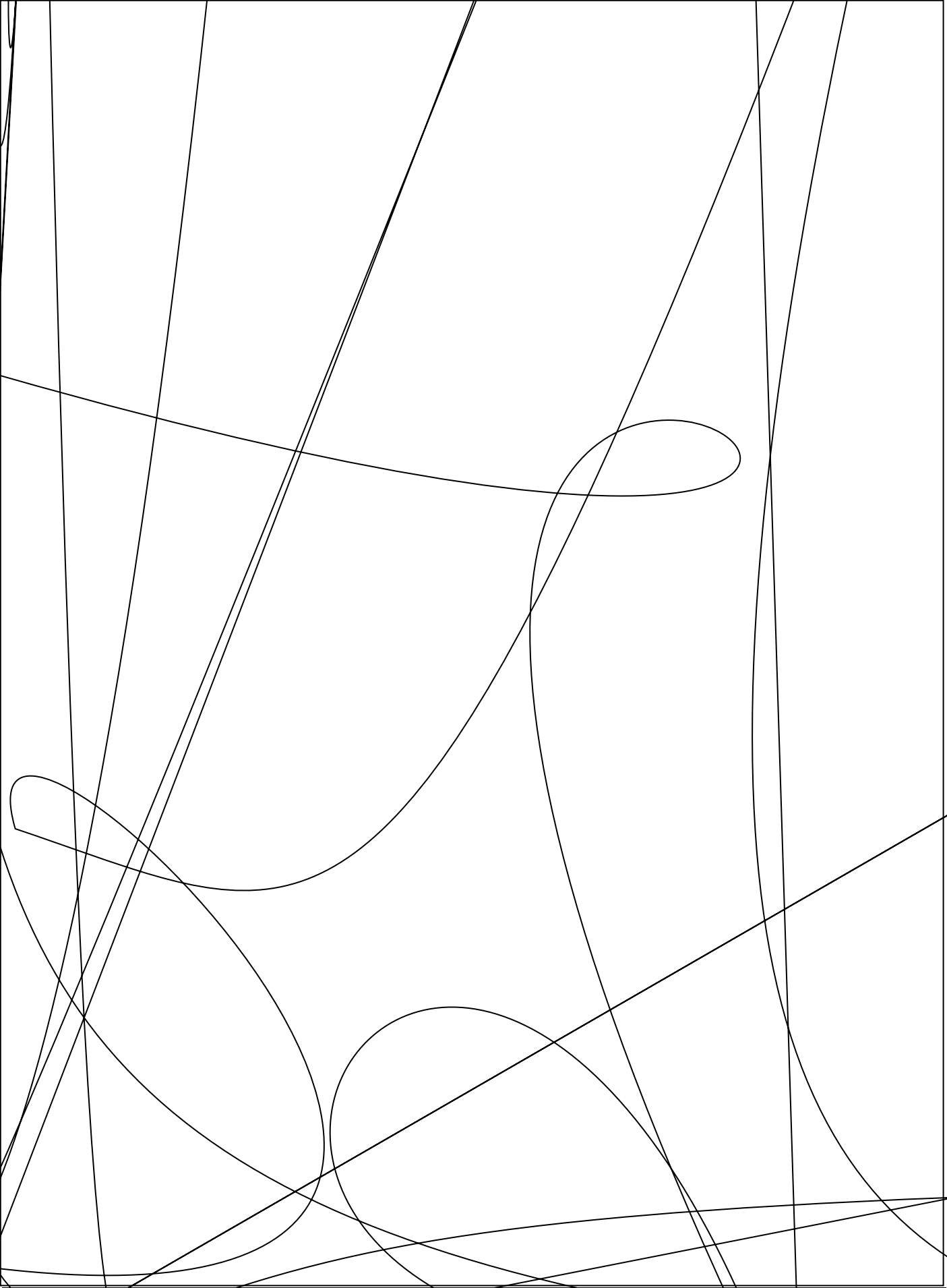
Product Specifications

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 $\lambda_p=940\text{nm}$
- ◆ 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 ^{*1}	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°C to $+65^\circ\text{C}$	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	-40°C to $+85^\circ\text{C}$	$^\circ\text{C}$

Note: 1. Pulse width $\leq 0.1\text{msec}$, duty cycle $\leq 1/2$.

