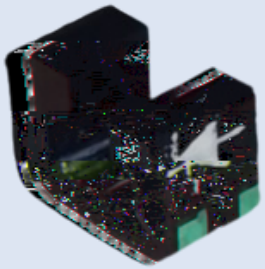
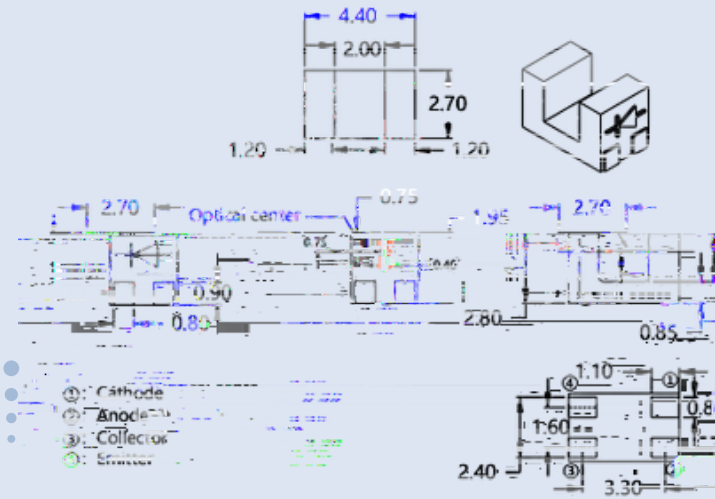
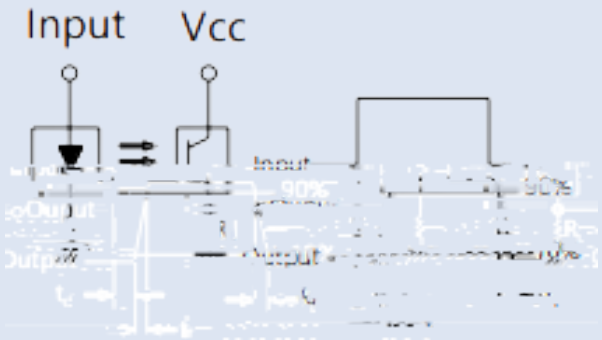
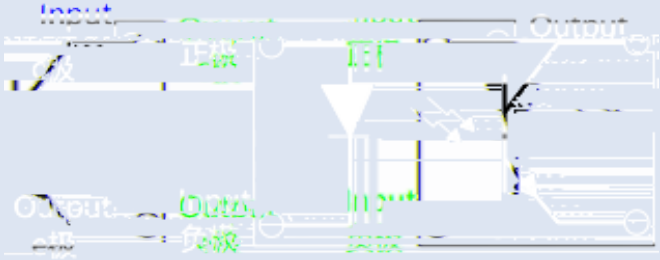
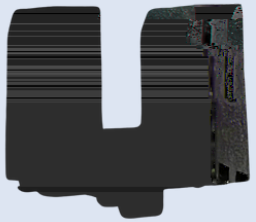



4.40
2.00
2.70
1.20
1.20
2.70
Optical center
0.90
0.80
2.80
0.85
1.10
1.60
2.40
3.30
① Cathode
② Anode
③ Collector


Input
Vcc
Input
90%
10%
Output
Output


Input
Output
LED
IC
Output
Output
Input

LG-ITR20403-S



DEVICE NO.	CHIP MATERIAL	LENS COLOR
IR	GaAs	Black
PT	Silicon	Black

DESCRIPTIONS

LG-ITR20403-S consists of an IR LED (940nm) and a PT phototransistor. The IR LED and PT phototransistor are oppositely encapsulated inside a black high-temperature-resistant material, which shields external light. Under normal conditions, the PT phototransistor can only receive signals from the IR LED. When an object blocks the path between the IR LED and the PT phototransistor, the PT phototransistor cannot receive the signal from the IR LED.

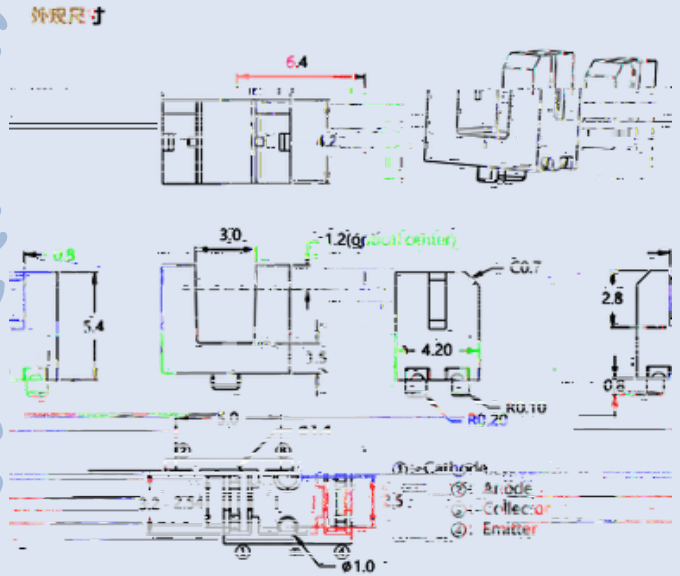
APPLICATION

★ Camera
★ Copier
★ Scanner
★ Non-contact switch
★ Various microcomputer-controlled devices

FEATURES

Dimensions: 6.4×4.2×5.4mm
Miniature, SMD patch type, pitch 3.0mm
High sensitivity, fast response
Shields external light, strong anti-interference capability
Low power consumption, high reliability
Lead-free, compliant with RoHS standards

PACKAGE DIMENSIONS



NOTS

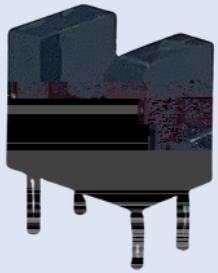
1. All dimensions are in millimeters.
2. Tolerance is ±0.20mm unless otherwise noted.

LG-ITR20403-C

DEVICE NO.	CHIP MATERIAL	LENS COLOR
IR	GaAs	Black
PT	Silicon	**Black**

DESCRIPTIONS

The LG-ITR20403-C consist of an infrared emitting diode and a silicon phototransistor, encased side-by-side on converging optical axis in a black thermoplastic housing.
The phototransistor receives radiation from the IR LED only. This is the normal situation.
But when an object is in between, phototransistor could not receives the radiation.



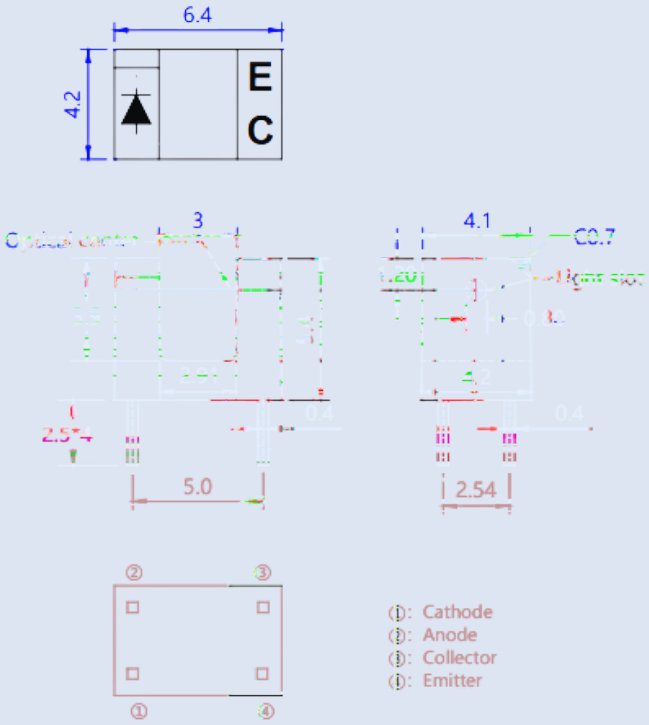
APPLICATION

★ Mouse Copier
★ Switch Scanner
★ Floppy disk driver
★ Non-contact Switching
★ For Direct Board

FEATURES

Fast response time
High analytic
Cut-off visible wavelength
λp=940nm
High sensitivity
Pb free
The product itself will remain within
RoHS compliant version

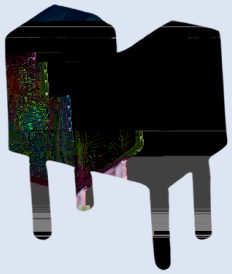
PACKAGE DIMENSIONS



NOTS

1. All dimensions are in millimeters.
2. Tolerance is ±0.20mm unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.

LG-ITR2151-C



DEVICE NO.	CHIP MATERIAL	LENS COLOR
IR	GaAs	B
PT	Silicon	**Black**

DESCRIPTIONS

G C

ED

B

APPLICATION

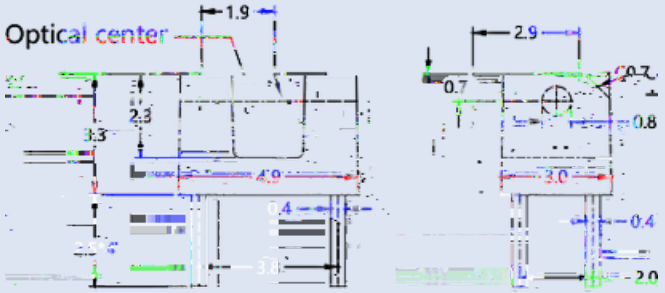
★ C
★
★F
★
★F D B

FEATURES

F

C
λ

PACKAGE DIMENSIONS



NOTS

A

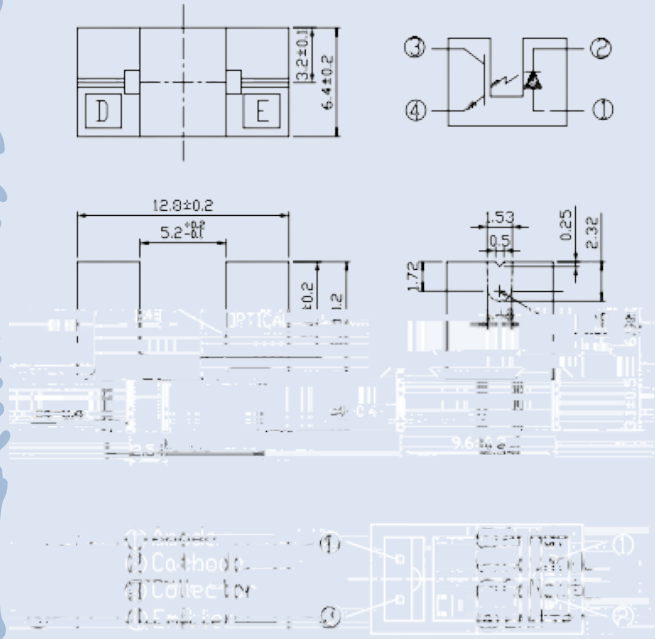
LG-ITR2C-502725

ITR9707

GaAlAs

Silicon

★Mouse Copier
★Switch Scanner
★Floppy disk driver
★Non-contact Switching
★For Direct Board



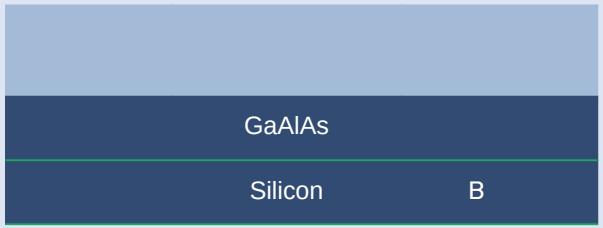
The LG-ITR2C-502725 consist of an infrared emitting diode and an NPN silicon phototransistor, encased side-by-side on converging optical axis in a black Thermoplastic Housing The phototransistor receives radiation from the IRED only .This is the normal Situation. But when an object is in between , phototransistor could not receives the radiation.

Fast response time
High analytic
Cut-off visible wavelength
λp=940nm
High sensitivity
Pb free
The product itself will remain within
RoHS compliant version

1. All dimensions are in millimeters.
2.Tolerances unless dimensions ±0.2mm.

LG-ITR2C-553924

对标亿光料号ITR9606



★ C
★
★F
★
★F D B

G C

F

C
λ

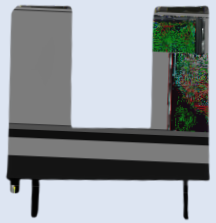
A

ED
B

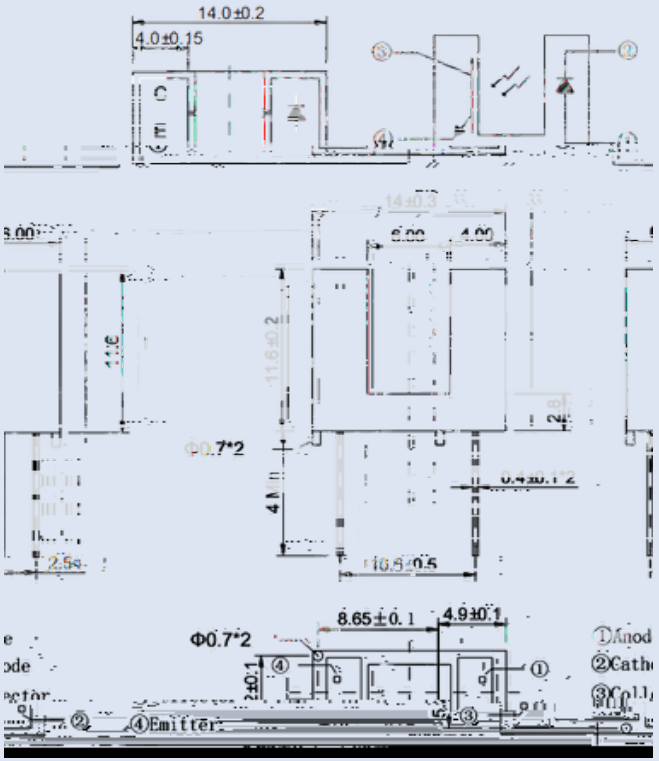
对标亿光料号ITR8402

GaAlAs

Silicon



★Mouse Copier
★Switch Scanner
★Floppy disk driver
★Non-contact Switching
★For Direct Board



The LG-ITR2C-554624 consist of an infrared emitting diode and an silicon phototransistor, encased side-by-side on converging optical axis in a black thermoplastic housing,
The phototransistor receives radiation from the IR LED only .This is the normal situation.
But when an object is in between , phototransistor could not receives the radiation.

Fast response time
High analytic
Cut-off visible wavelength
λp=940nm
High sensitivity
Pb free
The product itself will remain within
RoHS compliant version

1. All dimensions are in millimeters.
2. Tolerance is ±0.20mm unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.

LT-ITR8307S

DEVICE NO.	CHIP MATERIAL	LENS COLOR
IR	GaAs	/
PT	Silicon	/

DESCRIPTIONS

LT-ITR8307S is a reflective photoelectric switch that includes a GaAs infrared LED emitter and a highly sensitive NPN phototransistor receiver, suitable for short-range detection and operating in the infrared spectral range.
These two components are installed side by side in a plastic package.
This photoelectric switch has the characteristics of fast response speed, high sensitivity, strong anti-interference ability, low power consumption, small size, and strong reliability.

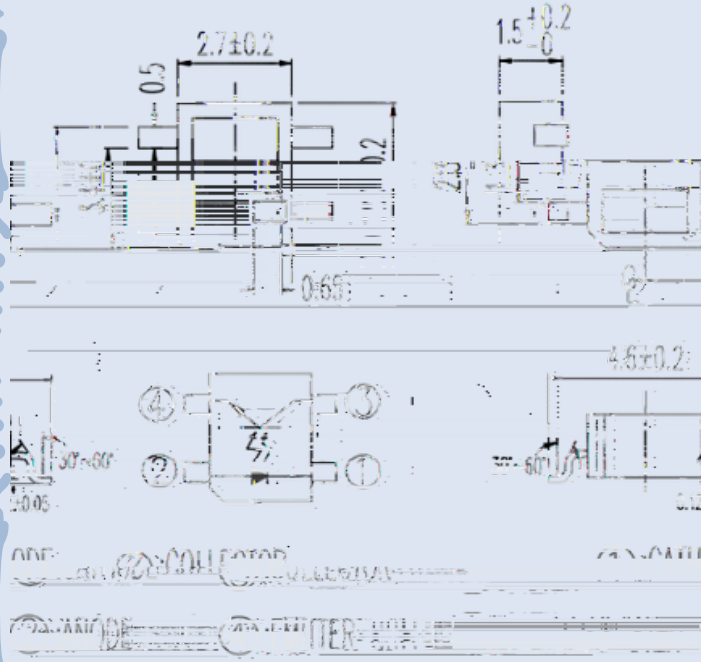
APPLICATION

★Camera
★Mouse Copier
★Switch Scanner
★Floppy disk driver
★Non-contact Switching
★For Direct Board
★Various microcomputer control equipment

FEATURES

Fast response time
High sensitivity
Cut-Off visible wavelength
Strong anti-interference ability
Thin
High reliability
Compact

PACKAGE DIMENSIONS



NOTS

1. All dimensions are in millimeters
2. Tolerances unless dimensions ±0.15mm