



## ■ Features

- Fast response time
- High analytic
- Cut-off visible wavelength  $\lambda = 940\text{nm}$
- High sensitivity
- Pb free
- The product itself will remain within RoHS compliant version



## ■ Descriptions

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.

## ■ Applications

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

## ■ Device Selection Guide

Device No.	Chip Material	LENS COLOR
IR	GaAlAs	Water Clear
PT	Silicon	Water Clear



### Absolute Maximum Ratings (Ta=25°C)

		2	0	
14 E	C		64	
	0		4	
	E	E	4/	
	E	E	0	
D	C		64	
			1/	
	,D	D	2/	
	D	D	4	
0			,14 *74	
0		0	,3/ *74	
0			15/	

' )α 0// + 0/ - ' )1( 4 -

### Electro-Optical Characteristics (Ta=25°C)

		2 <sub>4</sub>	-	-	-	
E	0	E	...	01	05	E 1/
			...	...	0/	4
	0		..	83/	...	E 1/
C		D	...	...	0//	D 0/ + D / . 1
	,D	D' (	...	...	/3	/-4 D 0/ . 1
	0	' (	0/	02-7	...	D 4 E 1/
/			...	04	...	D 4
	E	/	...	04	...	0 0

4



Typical Electrical/Optical/Characteristics Curves for PT

Fig.1 Spectral Sensitivity

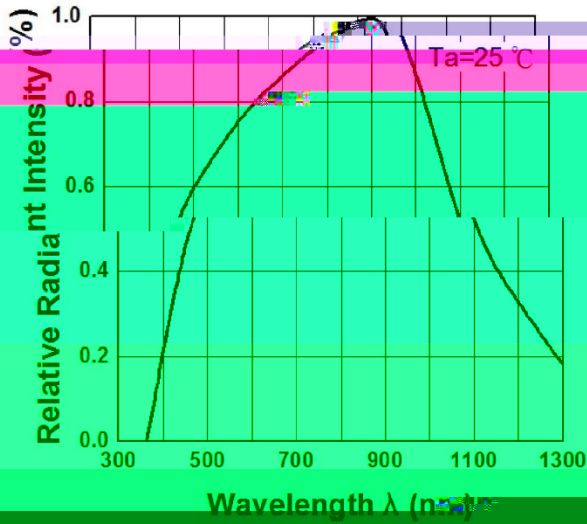


Fig.2 Collector Current vs. Irradiance

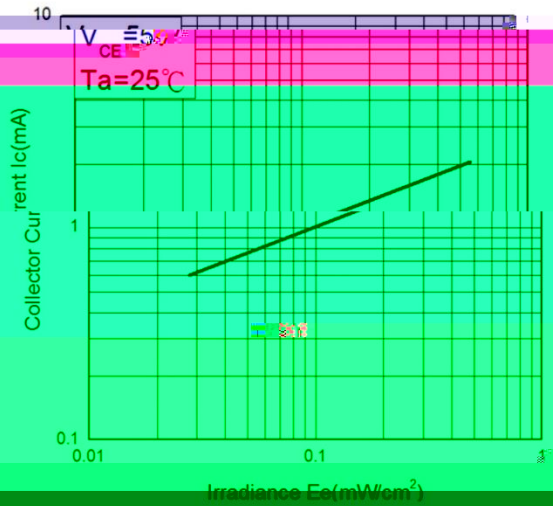


Fig.3 Collector Current vs. Collector-Emitter Voltage



Fig.4 Collector Current vs. Collector-Emitter Voltage

