

SIR765-02

Photo Interrupter

The SIR765-02 is a photointerrupter consisting of GaAs IRED and phototransistor.

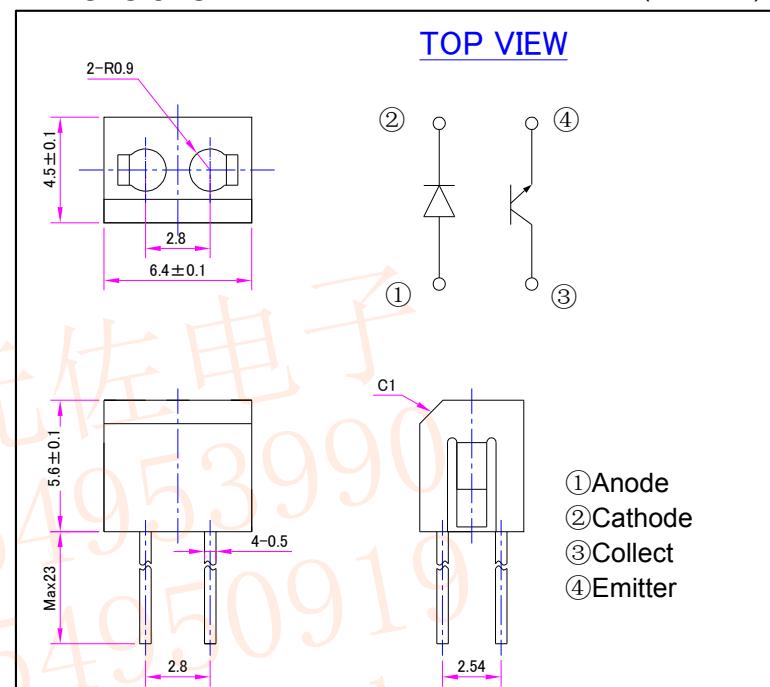
Features

- Fast response time
- High sensitivity
- Cut-off visible wavelength
- RoHS Compliance

Applications

- Copier
- Scanner
- Printer
- Non-contact switching

Dimensions (unit: mm)



Maximum Ratings

(Ta=25°C)

Item	Symbol	Rating	Unit
Input	P _D	75	mW
	I _F	50	mA
	V _R	5	V
Output	P _C	75	mW
	I _C	20	mA
	V _{CEO}	30	V
	V _{ECO}	5	V
Operating temperature	Toopr.	-20 ~ +85	°C
Storage temperature	Tstg.	-30 ~ +85	°C
Soldering temperature *1	Tsol.	260	°C

*1. The soldering should be 1.2mm away from bottom of the holder t=within 3s

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Electro-Optical Characteristics

(Ta=25°C)

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	V _F	I _F =20mA	-	1.24		V
	Reverse current	I _R	V _R =5V	-	-	10	μA
	Peak wavelength	λ _P	I _F =20mA	-	940	-	nm
Output	Dark current	I _{CEO}	V _{CE} =10V E _V =0 lx	-	3	100	nA
	Peak SENS.Wavelength	λ _P	-	-	880	-	nm
Transfer characteristics	Light current * ²	I _{CEL}	I _F =10mA V _{CE} =5V d=5mm	0.5	-	6	mA
	Leak current * ³	I _{CEOD}	I _F =10mA V _{CE} =5V	-	-	20	μA
	C-E sat.voltage	V _{CE(sat)}	I _F =20mA I _C =0.1mA	-	0.15	0.4	V
	Rise time	tr	I _C =10mA V _{CC} =5V R _L =100 Ω	-	10	-	μs
	Fall time	tf		-	10	-	μs

*2. d=5mm KODAK 90% Reflex Paper

*3. NO Reflector

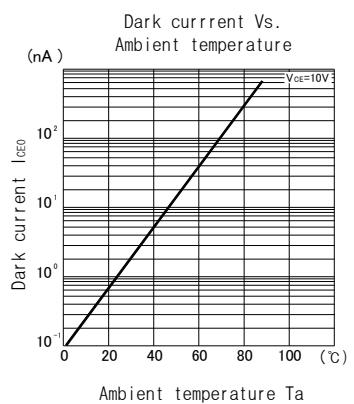
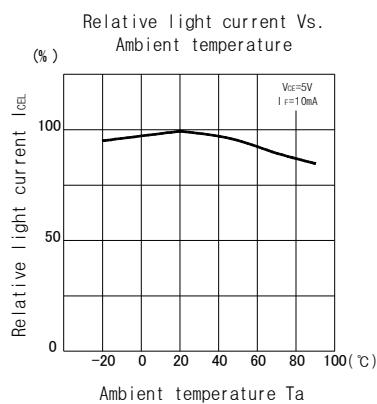
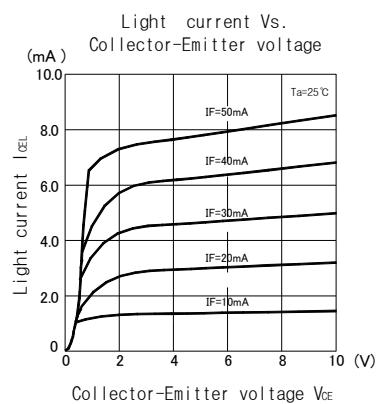
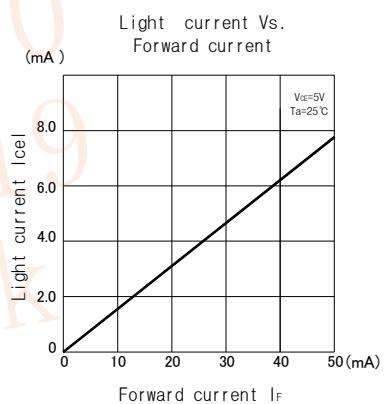
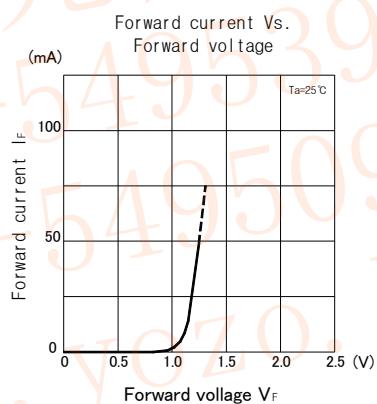
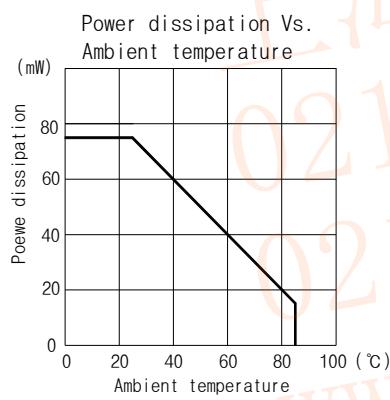
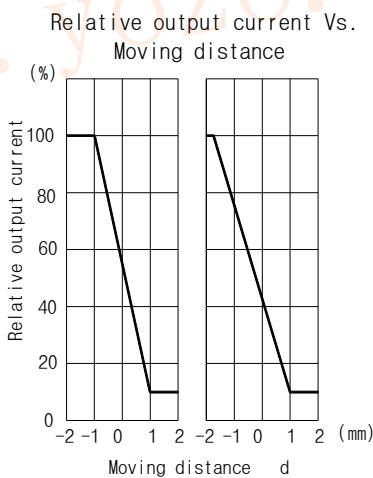
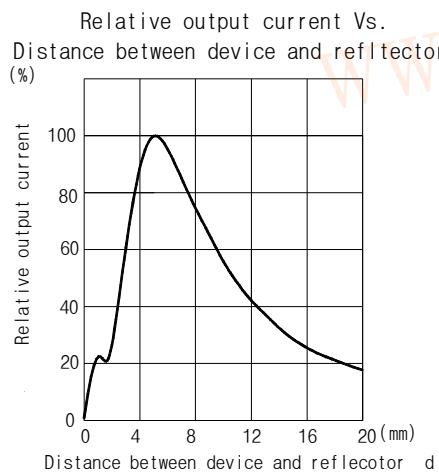
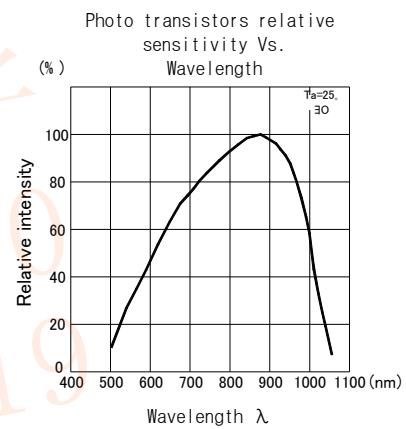
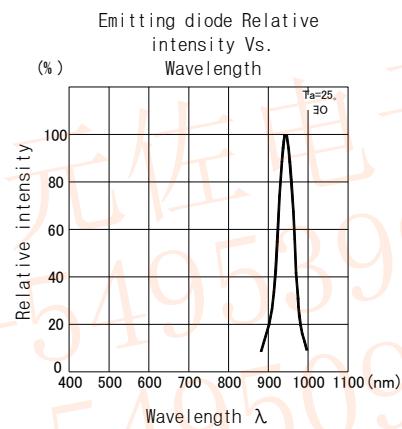
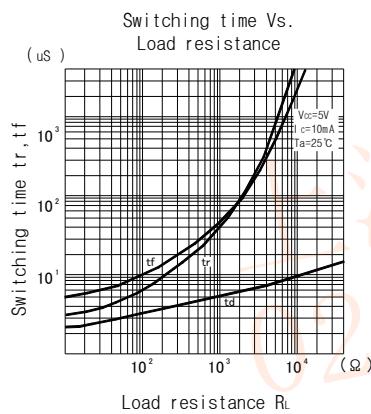
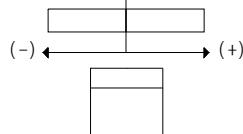


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Method of measuring position detect characteristic(x)
NO reflective paper 90% reflective paper



Method of measuring position detect characteristic(y)
NO reflective paper 90% reflective paper

