

# SIR765-02

## Photo Interrupter

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

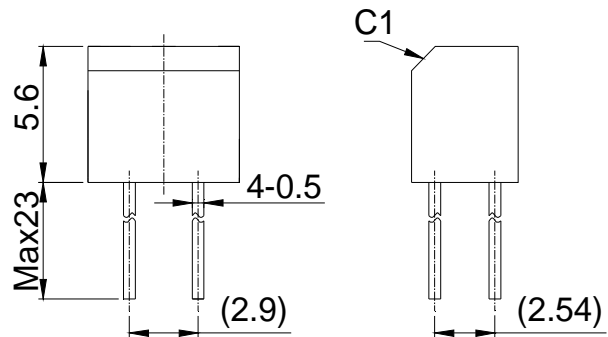
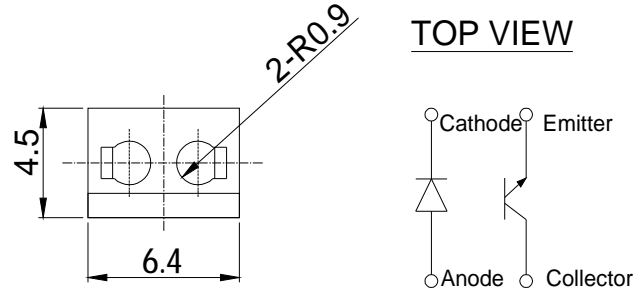
### Features

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

### Applications

- Copier
- Scanner
- Printer
- Non-contact switching

### Dimensions (unit: mm)



General Tolerance (±0.2)

### Maximum Ratings

(Ta=25°C)

Item		Symbol	Rating	Unit
Input	Power dissipation	$P_D$	75	mW
	Forward current	$I_F$	50	mA
	Reverse voltage	$V_R$	5	V
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
Operating temperature <sup>*1</sup>		Topr.	-20 ~ +85	°C
Storage temperature <sup>*1</sup>		Tstg.	-30 ~ +85	°C
Soldering temperature <sup>*2</sup>		Tsol.	260	°C

\*1. No icebond or dew.

\*2. The soldering should be 1.2mm away from bottom of the holder t=within 3s

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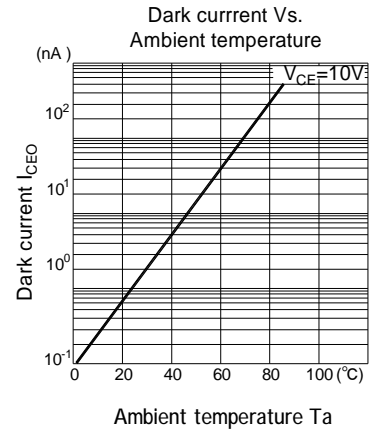
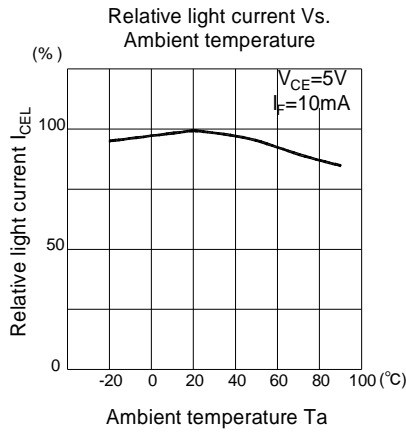
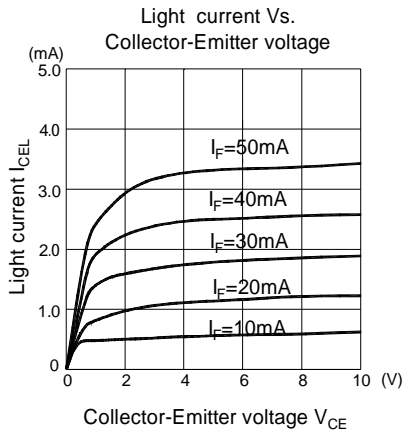
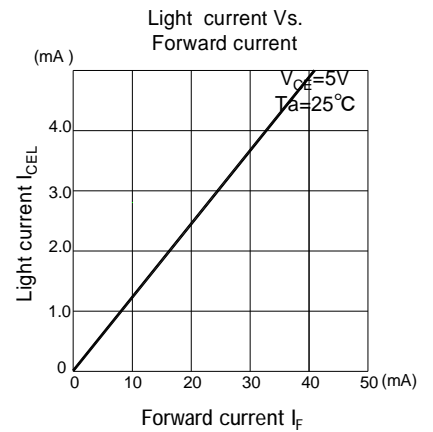
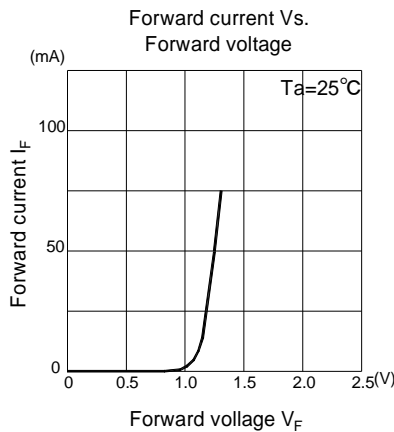
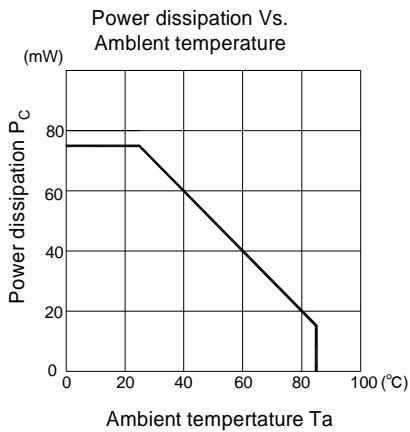
### Electro-Optical Characteristics

(Ta=25°C)

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	$V_F$	$I_F=20\text{mA}$	-	1.2	1.4	V
	Reverse current	$I_R$	$V_R=5\text{V}$	-	-	10	$\mu\text{A}$
	Peak wavelength	$\lambda_P$	$I_F=20\text{mA}$	-	940	-	nm
Output	Dark current	$I_{CEO}$	$V_{CE}=10\text{V}$ $E_V=0\text{lx}$	-	3	100	nA
	Peak SENS.Wavelength	$\lambda_P$	-	-	880	-	nm
Transfer characteristics	Light current *3	$I_{CEL}$	$I_F=10\text{mA}$ $V_{CE}=5\text{V}$ $d=5\text{mm}$	0.5	-	6.0	mA
	Leak current *4	$I_{CEOD}$	$I_F=10\text{mA}$ $V_{CE}=5\text{V}$	-	-	20	$\mu\text{A}$
	C-E sat.voltage	$V_{CE(sat)}$	$I_F=20\text{mA}$ $I_C=0.1\text{mA}$	-	0.15	0.4	V
	Rise time	tr	$I_C=100\mu\text{A}$ $V_{CC}=5\text{V}$ $R_L=100\ \Omega$	-	10	-	$\mu\text{s}$
	Fall time	tf		-	10	-	$\mu\text{s}$

\*3. d=5mm KODAK 90% Reflex Paper

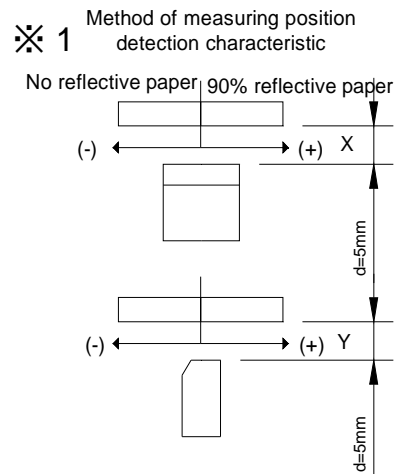
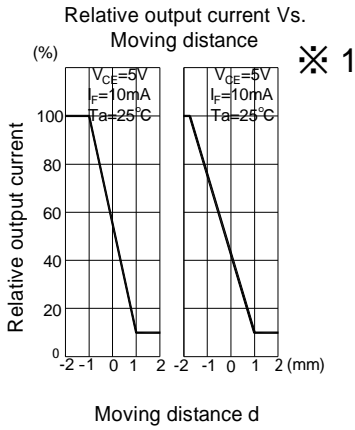
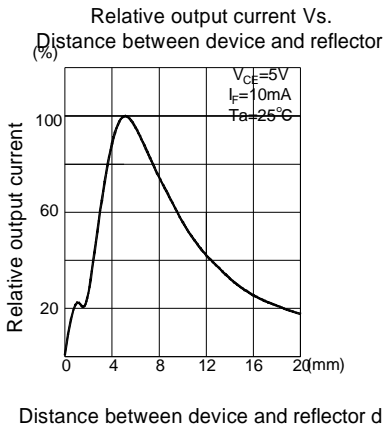
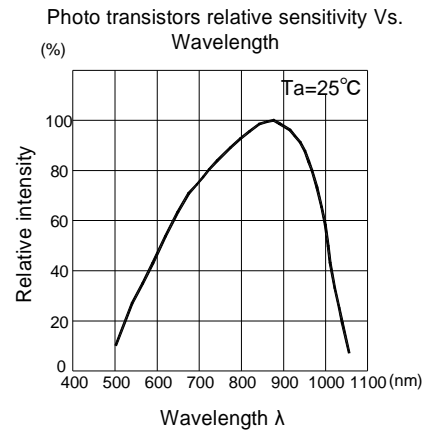
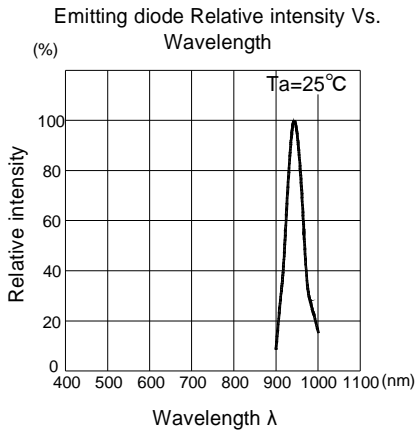
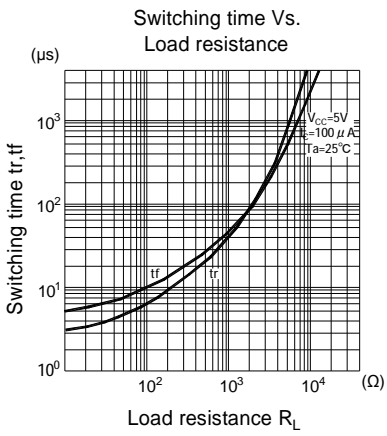
\*4. NO Reflector



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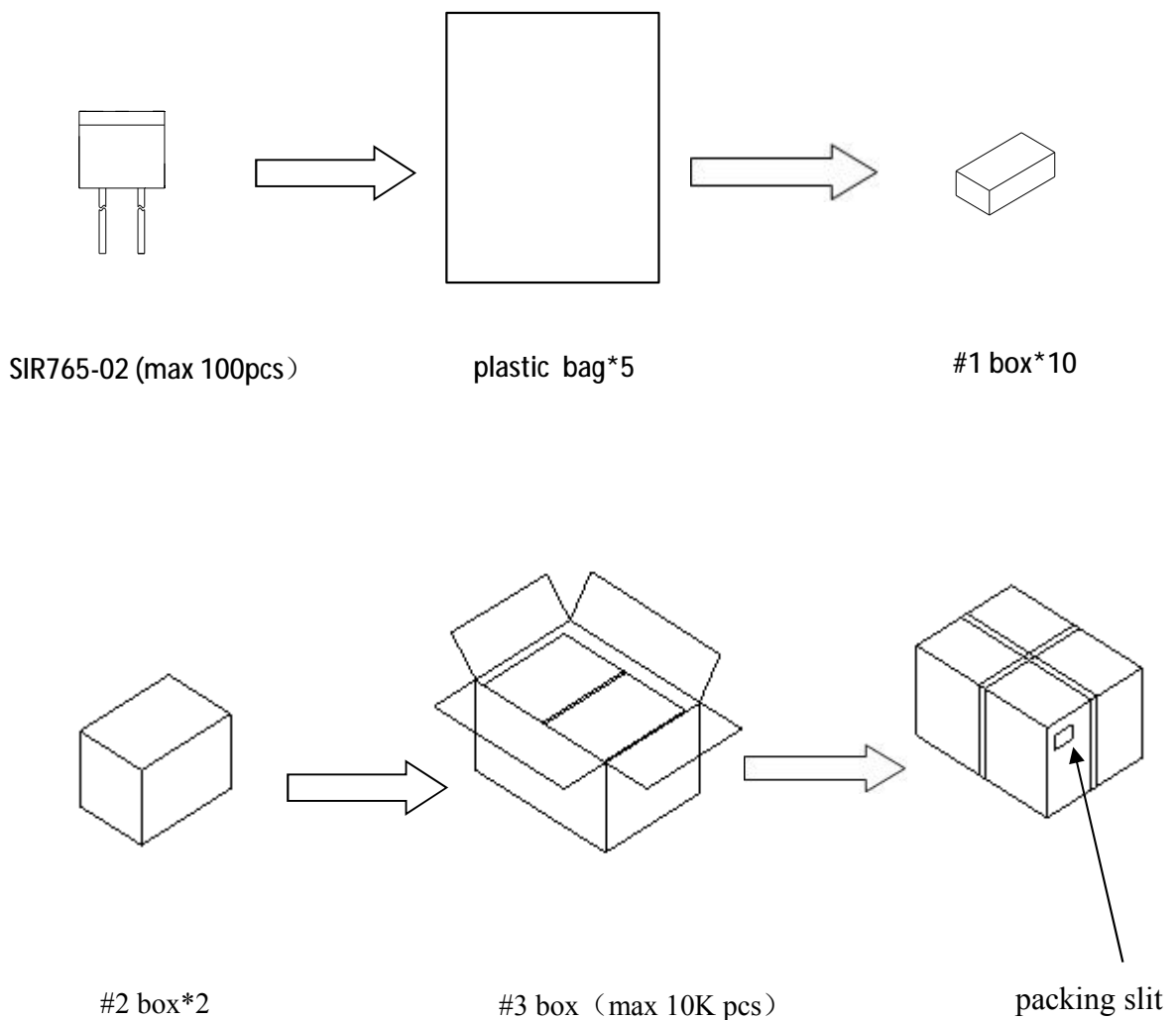


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# SIR765-02

## Packing Specification

- 1.Fixed quantity (max 100pcs) of the products are packed into plastic bag
- 2.Five bags of the products are put into #1 box
- 3.Ten #1 boxes are put into #2 box and two #2 boxes are put into #3 box(max 10000pcs)
4. Packing slit is pasted on #3 box



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