

# SITAB74

## Photo Interrupter

### Dimensions

(unit: mm)

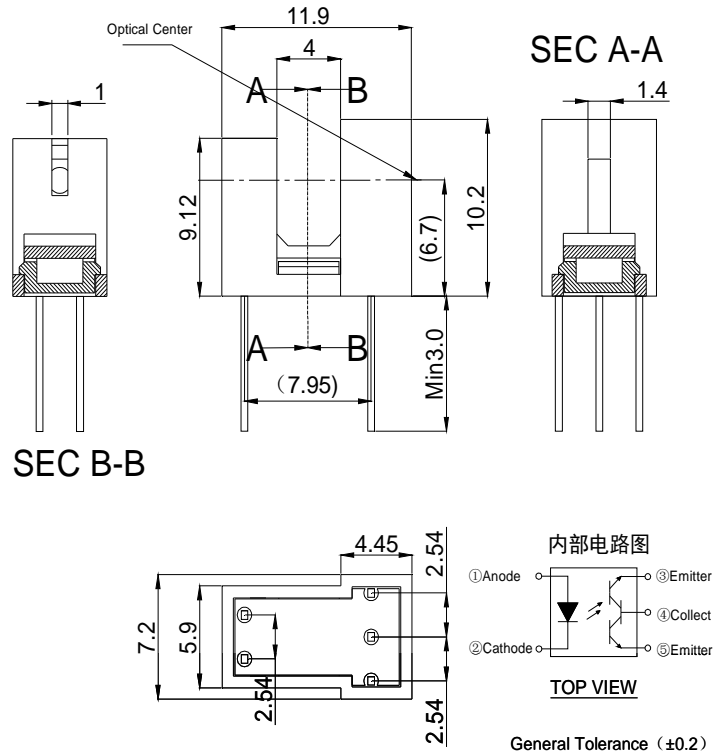
The SITAB74 consists of one infrared emitting diode facing two NPN silicon phototransistors encased in a black thermoplastic housing. Detector switching takes place whenever an opaque object passes through the slot between emitter and detector. The dual channels allow both the speed and the direction of the interrupter to be sensed.

**Features**

- PCB mouning package
- Gap:4mm
- Resolution:0.7mm
- Rejection of ambient light
- RoHS Compliance

**Applications**

- Digital ammeter
- Disk drive



**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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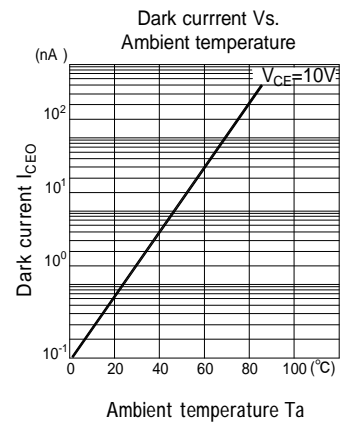
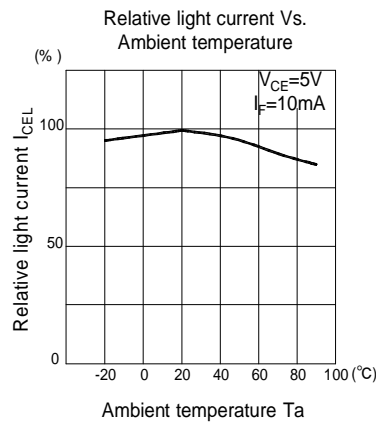
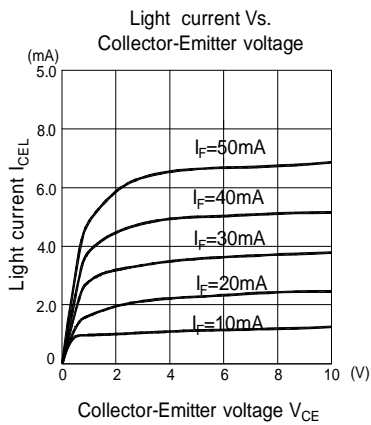
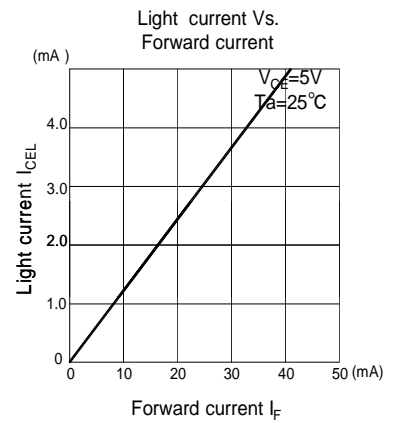
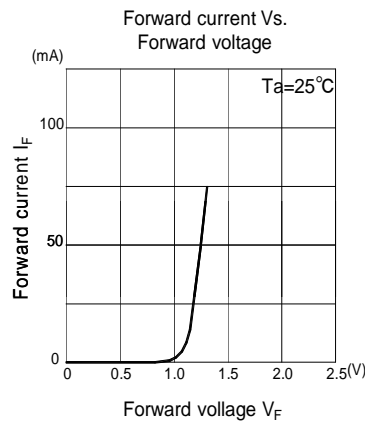
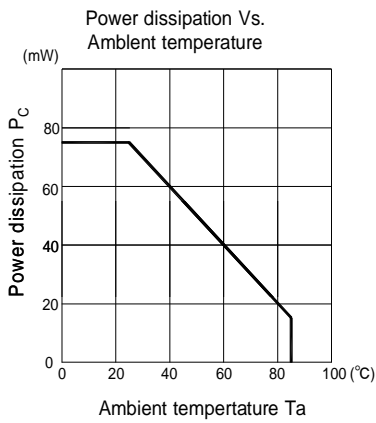
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### Electro-Optical Characteristics

(Ta=25°C)

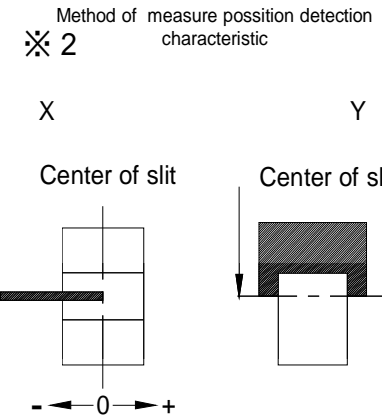
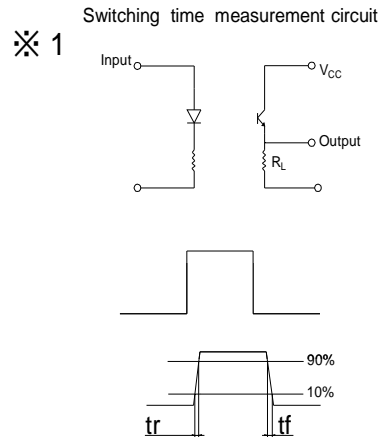
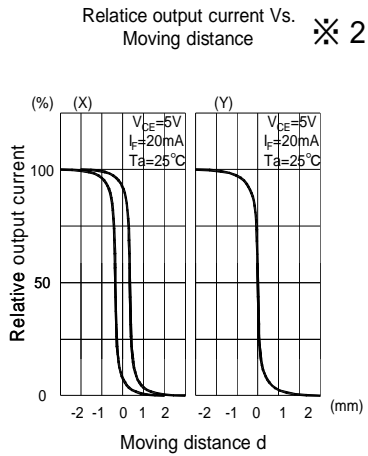
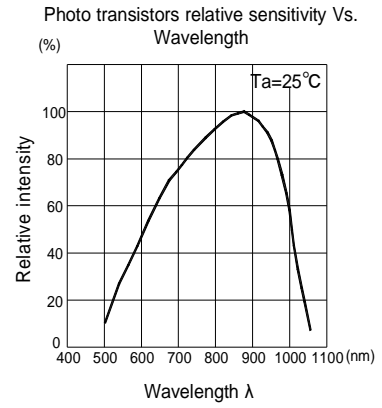
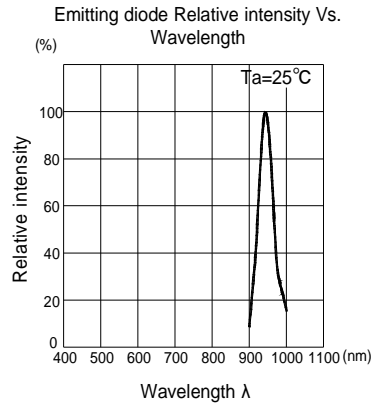
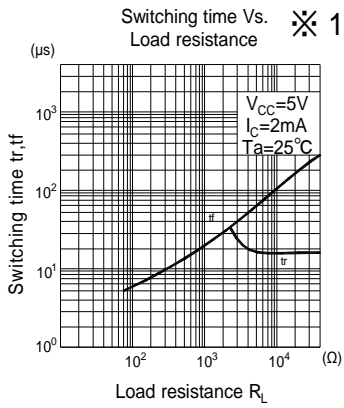
Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	$V_F$	$I_F=20\text{mA}$	-	1.2	1.4	V
	Reverse current	$I_R$	$V_R=5\text{V}$	-	-	10	$\mu\text{A}$
	Peak wavelength	$\lambda_P$	$I_F=20\text{mA}$	-	940	-	nm
Output	Dark current	$I_{CEO}$	$V_{CE}=10\text{V } E_V=0 \text{ lx}$	-	3	100	nA
	Peak SENS.Wavelength	$\lambda_P$	-	-	880	-	nm
Transfer characteristics	Light current <sup>*3</sup>	$I_{CEL}$	$I_F=5\text{mA } V_{CE}=5\text{V Non-}$	0.3	-	3	mA
	Leak current <sup>*4</sup>	$I_{CEOD}$	$I_F=5\text{mA } V_{CE}=5\text{V Shading}$	-	-	5	$\mu\text{A}$
	C-E sat.voltage	$V_{CE(sat)}$	$I_F=20\text{mA } I_C=0.1\text{mA}$	-	0.2	0.4	V
	Rise time	tr	$I_C=2\text{mA } V_{CC}=5\text{V } R_L=100 \Omega$	-	4	-	$\mu\text{s}$
	Fall time	tf		-	5	-	$\mu\text{s}$



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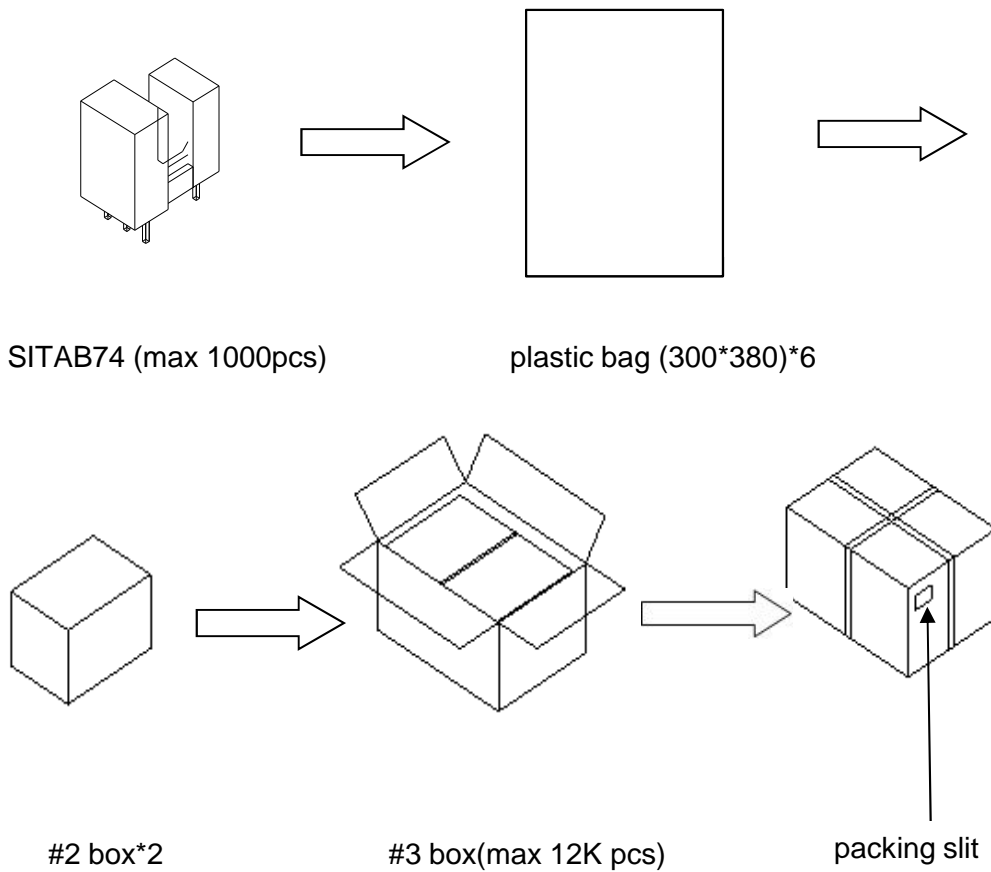
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### Packing Specification

- 1.Fixed quantity (max 1000pcs) of the products are packed into plastic bag(300\*380)
- 2.Six bags of the products are put into #2 box
3. Two #2 boxes are put into #3 box(max 12000pcs)
4. Packing slit is pasted on #3 box.



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