

SITAB74

Photo Interrupter

Dimensions

(unit: mm)

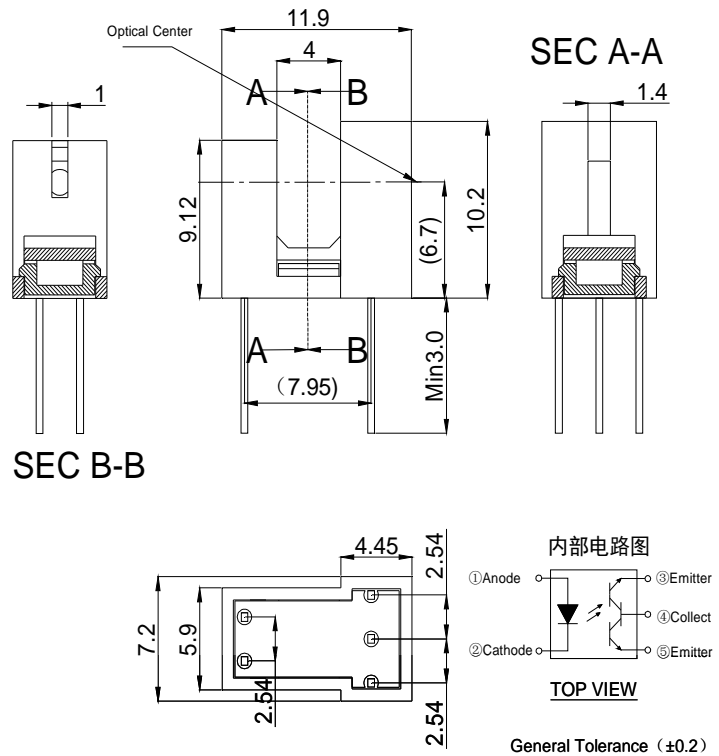
The SITAB74 consists of one infrared emitting diode facing two NPN silicon phototransistors encased in a black thermoplastic housing. Detector switching takes place whenever an opaque object passes through the slot between emitter and detector. The dual channels allow both the speed and the direction 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 ^{*1}		Topr.	-20 ~ +85	°C
Storage temperature ^{*1}		Tstg.	-30 ~ +85	°C
Soldering temperature ^{*2}		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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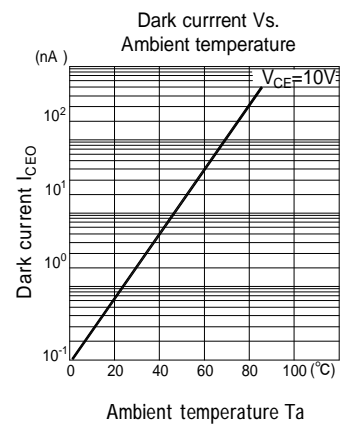
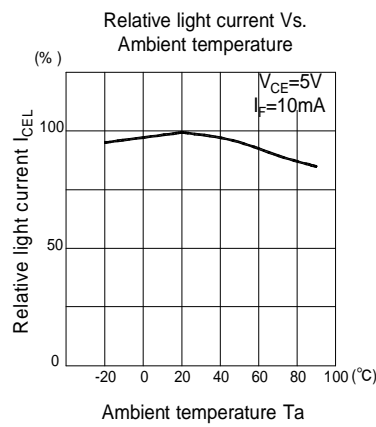
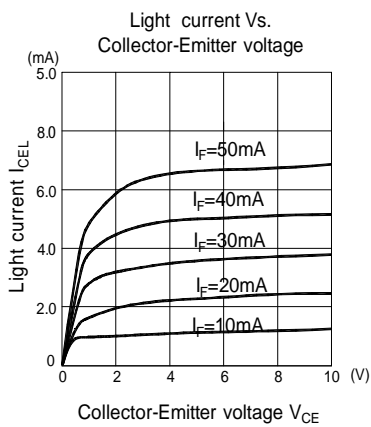
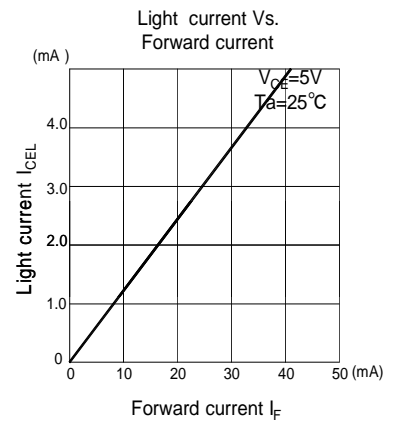
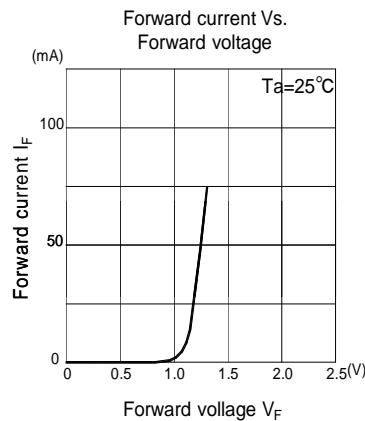
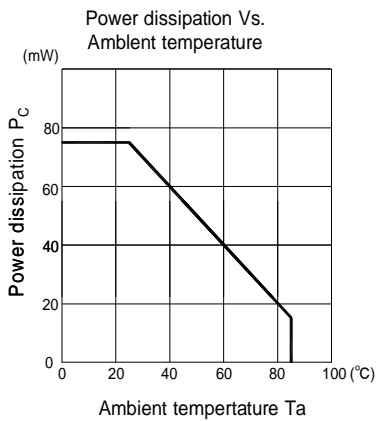
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Elector-Optical Characteristics

(Ta=25°C)

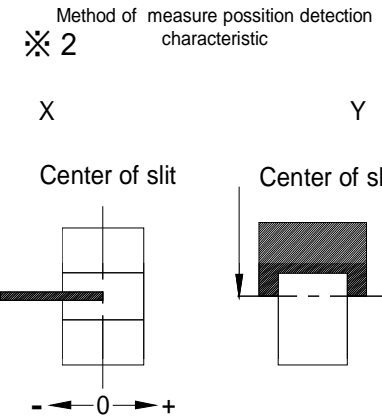
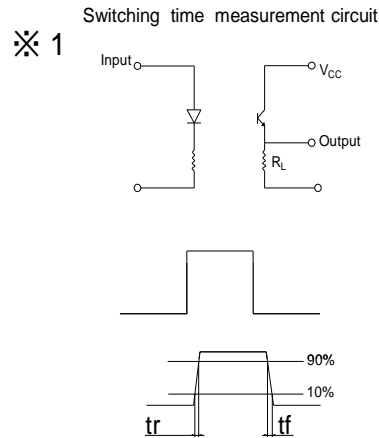
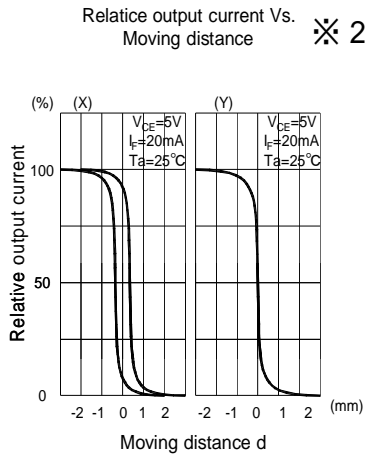
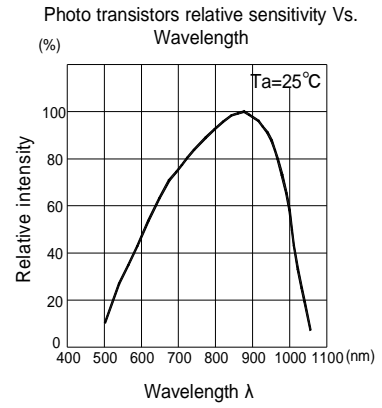
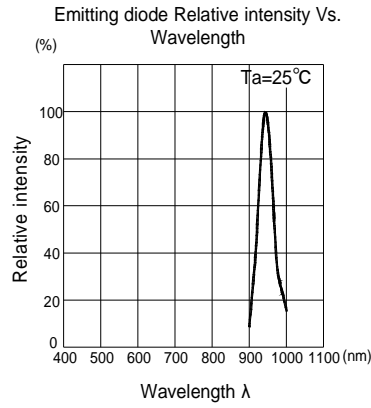
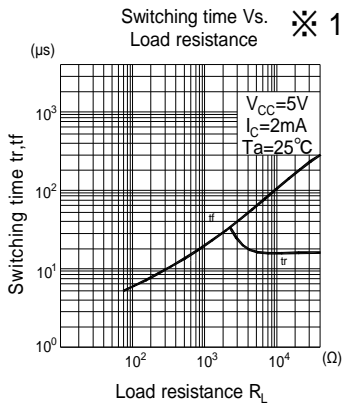
Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	V_F	$I_F=20\text{mA}$	-	1.2	1.4	V
	Reverse current	I_R	$V_R=5\text{V}$	-	-	10	μA
	Peak wavelength	λ_P	$I_F=20\text{mA}$	-	940	-	nm
Output	Dark current	I_{CEO}	$V_{CE}=10\text{V } E_V=0 \text{ lx}$	-	3	100	nA
	Peak SENS.Wavelength	λ_P	-	-	880	-	nm
Transfer characteristics	Light current * ³	I_{CEL}	$I_F=5\text{mA } V_{CE}=5\text{V Non-}$	0.3	-	3	mA
	Leak current * ⁴	I_{CEOD}	$I_F=5\text{mA } V_{CE}=5\text{V Shading}$	-	-	5	μA
	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	-	μs
	Fall time	tf		-	5	-	μs



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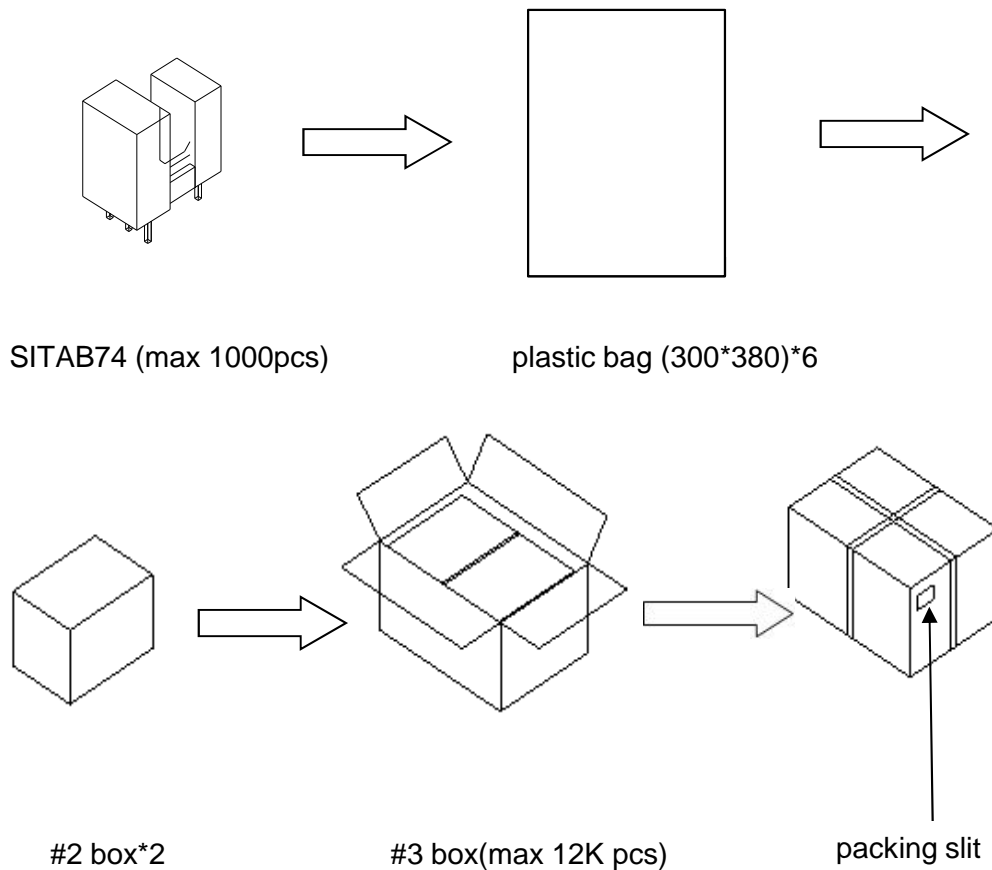
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Packing Specification

- 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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