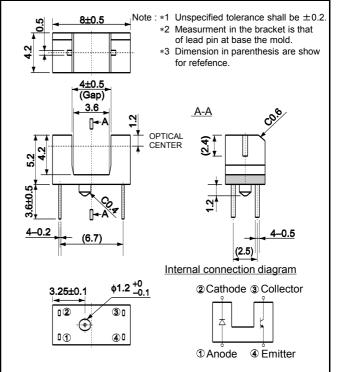


Applications

- Printers
- Faxs
- Optical Control Equipment





Features

- 1) Positioning pin results in high mounting accuracy
- 2) Gap4.0mm

• Absolute maximum ratings (Ta = 25°C)

F	Parameter	Symbol	Value	Unit
Input (Infrared light emitting diode)	Forward current	١ _F	35	mA
	Reverse voltage	V _R	5	V
	Power dissipation	P _D	70	mW
	Collector-emitter voltage	V _{CEO}	30	V
Output	Emitter-collector voltage	V _{ECO}	4.5	V
(Phototransistor)	Collector current	Ι _C	30	mA
	Collector dissipation	P _C	80	mW
Operating temperature	9	T _{opr}	–25 to +85	°C
Storage temperature		T _{stg}	-30 to +85	°C

•Electrical and optical characteristics (Ta = 25°C)

1) Input characteristics

Parameter	Symbol	Conditions		Values		Unit	
Faranieler	Symbol	Conditions	Min.	Тур.	Max.	Onit	
Forward voltage	V_{F}	I _F =10mA	-	1.4	1.7	V	
Reverse current	I _R	V _R =5V	-	-	10	μA	
Peak light emitting wavelength λ_p		I _F =50mA	-	850	-	nm	

* Non-coherent Infrared light emitting diode used.

2) Output characteristics

Parameter	Symbol	Conditions		Values		Unit
Farameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Dark current	I _{CED}	V _{CE} =10V	-	-	0.5	μA
Peak sensitivity wavelength	λ_p		-	800	-	nm

* This product is not designed to be protected against electromagnetic wave.

3) Transfer characteristics

Parameter		Symbol	Conditions		Values		Unit
		Symbol Conditions		Min.	Тур.	Max.	Unit
Collector current		I _C	V _{CE} =5V I _F =10mA	0.2	0.55	-	mA
Collector-emitter saturation voltage		V _{CE(sat)}	I _F =10mA I _C =0.1mA	-	-	0.4	V
Response time	Rise time	tr	V _{CC} =5V, I _F =10mA	-	10	-	
	Fall time	tf	R _L =100Ω	-	10	-	μS

•Electrical and optical characteristic curves

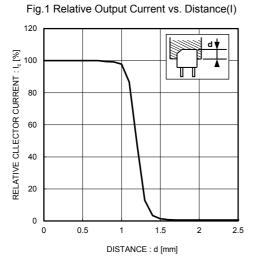


Fig.3 Forward Current vs. Foward Voltage

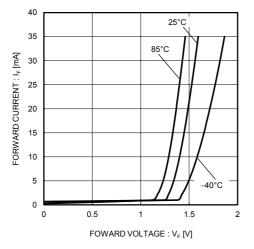
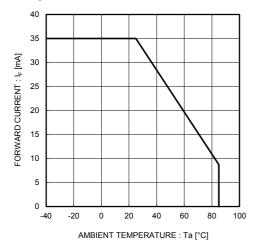


Fig.5 Forward Current Fall Off



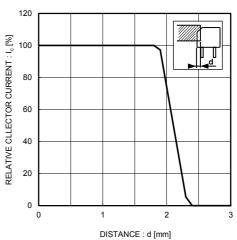


Fig.2 Relative Output Current vs. Distance(II)

Fig.4 Relative Output vs. Ambient Temperature

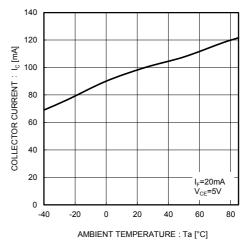
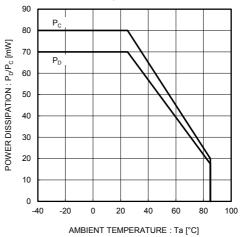


Fig.6 Power Dissipation/Collector Power Dissipation vs. Ambient Temperature



•Electrical and optical characteristic curves

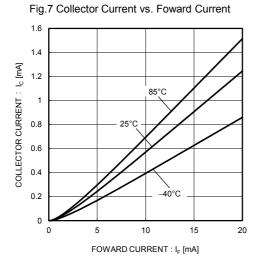
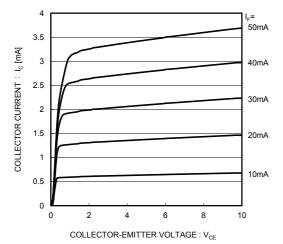
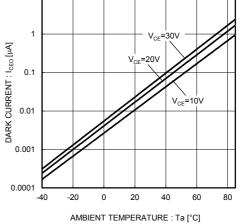


Fig.9 Output Characteristics



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Fig.8 Dark Current vs. Ambient Temperature



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