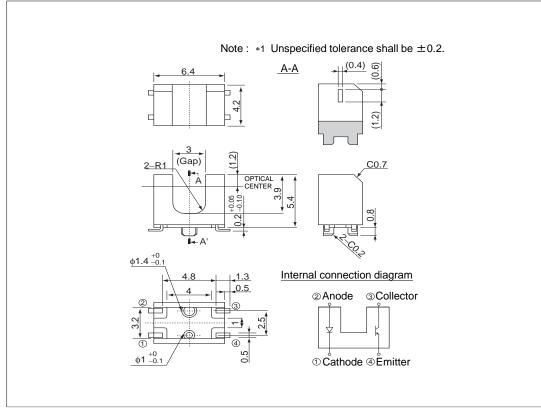
Applications

- Printers
- Optical Control Equipment
- Amusement

Features

- 1) Positioning pin results in high mounting accuracy
- 2) Gap3.0mm

•Dimensions (Unit : mm)



•Absolute maximum ratings ($T_a = 25^{\circ}C$)

F	Parameter	Symbol	Value	Unit
Input	Forward current	۱ _F	35	mA
(Infrared light emitting diode)	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}	-30 to +85	°C
Storage temperature		T _{stg}	-40 to +85	°C

Outline



•Electrical and optical characteristics ($T_a = 25^{\circ}C$)

1) Input characteristics

Parameter	Symbol	Conditions		Values		Unit
Faranielei	Symbol	Conditions	Min.	Тур.	Max.	
Forward voltage	V _F	I _F =10mA	1.2	1.4	1.6	V
Reverse current	I _R	V _R =5V	-	-	10	μΑ
Peak light emitting wavelength	λ_p	I _F =10mA	-	850	-	nm

* Non-coherent Infrared light emitting diode used.

2) Output characteristics

Deremeter	Symbol	Conditions		Values		Unit
Parameter	Symbol	Conditions	Min.	Тур.	Max.	
Dark current	I _{CEO}	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	Values			Unit	
		Symbol	Conditions	Min.	Тур.	Max.	Unit
Collector current		I _C	V _{CE} =5V I _F =10mA	0.18	0.9	-	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 characteristics curves

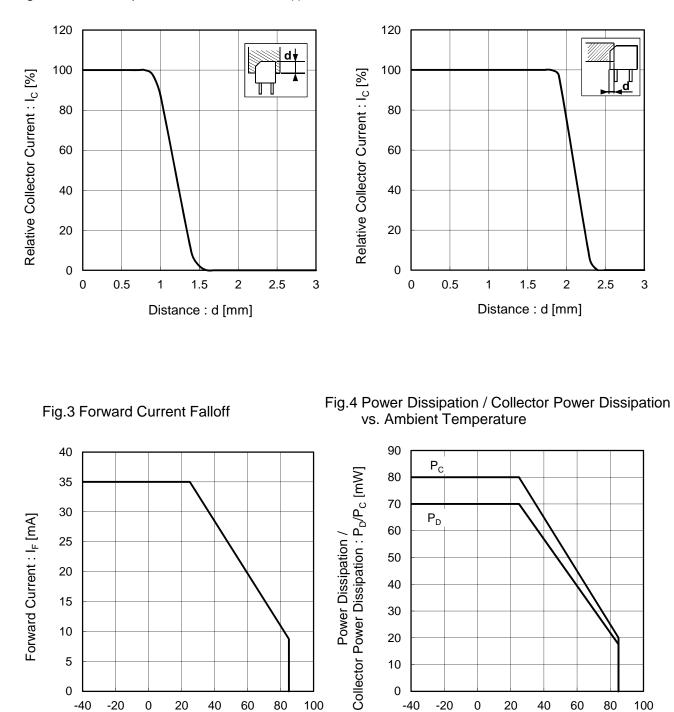


Fig.1 Relative Output Current vs.Distance (I)

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

0

-20

20

40

Ambient Temperature : T_a [°C]

60

80

0

-40

100

0

-40

0

20

40

Ambient Temperature : T_a [°C]

60

80

100

-20

•Electrical and optical characteristics curves

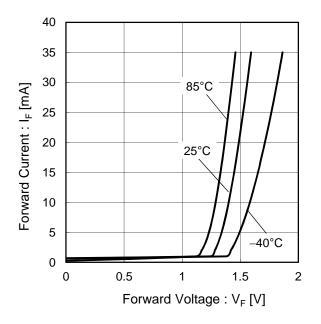


Fig.5 Forward Current vs. Forward Voltage

Fig.6 Collector Current vs. Forward Current

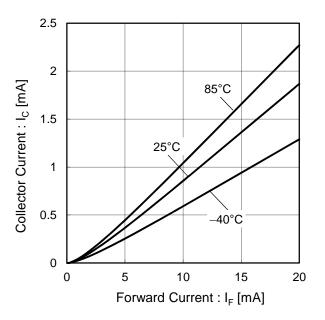


Fig.7 Relative Output vs. Ambient Temperature

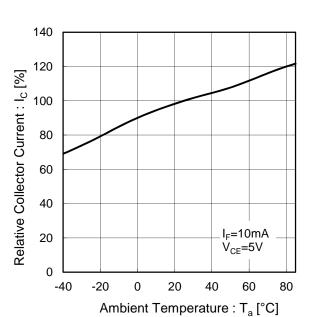
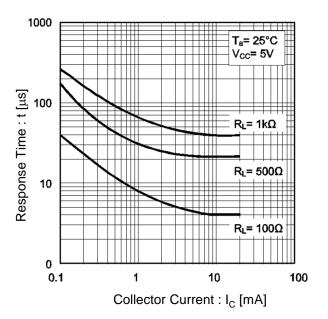


Fig.8 Response Time vs. Collector Current



•Electrical and optical characteristics curves

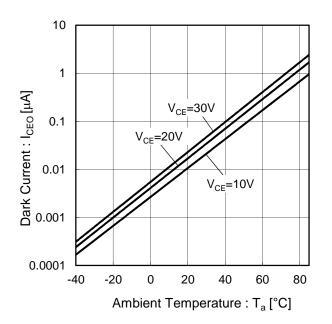


Fig.9 Dark Current vs. Ambient Temperature

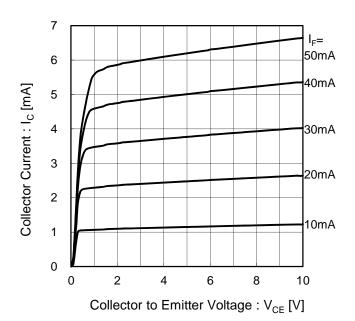


Fig.10 Output Characteristics

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