



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Photointerrupter, General type



Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Forward current	I _F	50	mA
Reverse voltage	V _R	5	V
Power dissipation	P _D	80	mW
Collector-emitter voltage	V _{CE0}	30	V
Emitter-collector voltage	V _{EC0}	4.5	V
Collector current	I _C	30	mA
Collector power dissipation	P _C	80	mW
Operating temperature	T _{opr}	-25 to +85	°C
Storage temperature	T _{stg}	-40 to +85	°C
Soldering temperture	T _{sol}	260/3 *	°C/sec

* 1mm from the body bottom.

Electrical and optical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F	-	1.3	1.6	V	I _F =50mA
Reverse current	I _R	-	-	10	μA	V _R =5V
Dark current	I _{CE0}	-	-	0.5	μA	V _{CE} =10V
Peak sensitivity wavelength	λ _P	-	800	-	nm	-
Collector current	I _C	0.5	-	-	mA	V _{CE} =5V, I _F =20mA
Collector-emitter saturation voltage	V _{CE(sat)}	-	0.1	0.5	V	I _F =20mA, I _C =0.5mA
Response time	Rise time	-	10	-	μs	V _{CC} =5V, I _F =20mA, R _L =100Ω
	Fall time	-	10	-	μs	
Cut-off frequency	f _c	-	1	-	MHz	I _F =50mA
Peak light emitting wavelength	λ _P	-	950	-	nm	* Non-coherent Infrared light emitting diode used.
Response time	tr·tf	-	10	-	μs	V _{CC} =5V, I _C =1mA, R _L =100Ω * This product is not designed to be protected against electromagnetic wave.
Maximum sensitivity wavelength	λ _P	-	800	-	nm	-

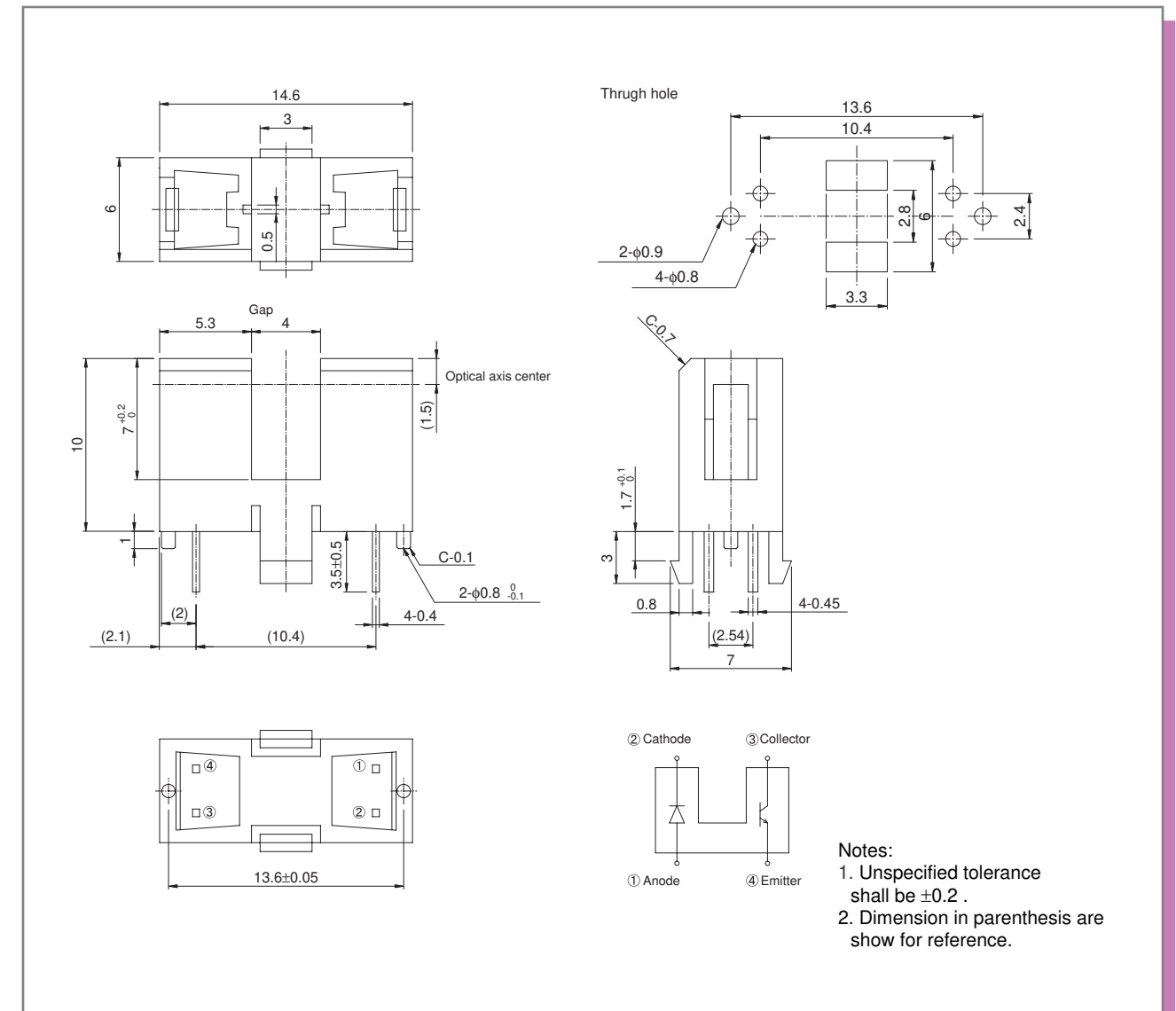
Applications

Printers
Facsimiles
AV equipment

Features

- 1) With a hook.
- 2) Gap 4mm.

External dimensions (Unit : mm)



Electrical and optical characteristics curves

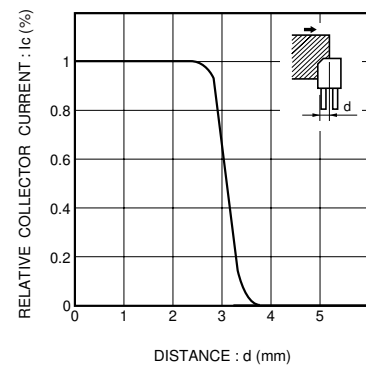


Fig.1 Relative output vs. distance (I)

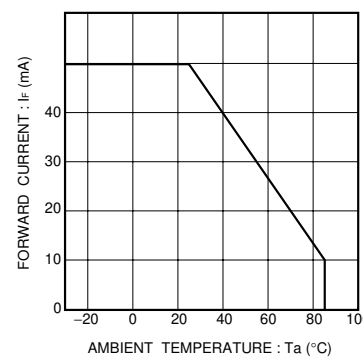


Fig.2 Forward current falloff

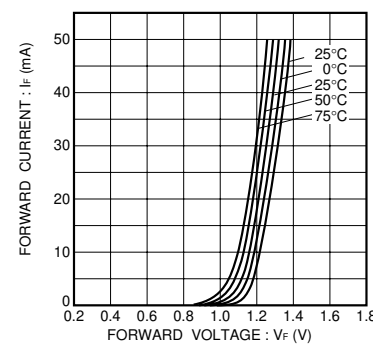


Fig.3 Forward current vs. forward voltage

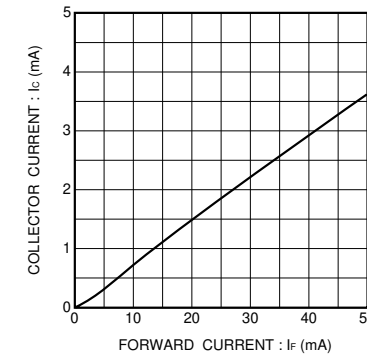


Fig.7 Collector current vs. forward current

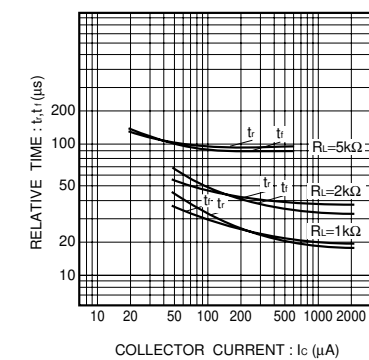


Fig.8 Response time vs. collector current

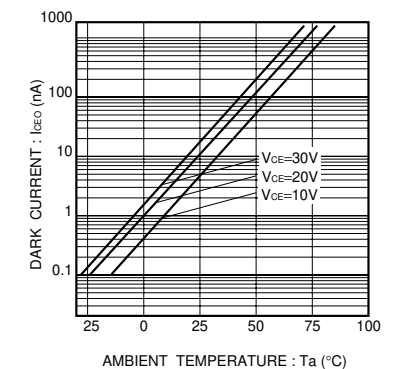


Fig.9 Dark current vs. ambient temperature

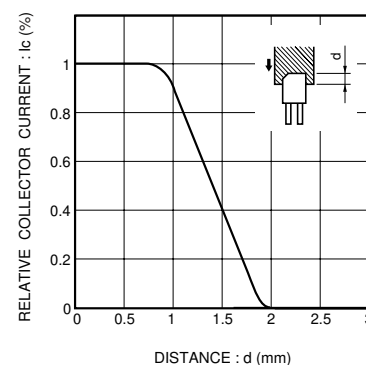


Fig.4 Relative output vs. distance (II)

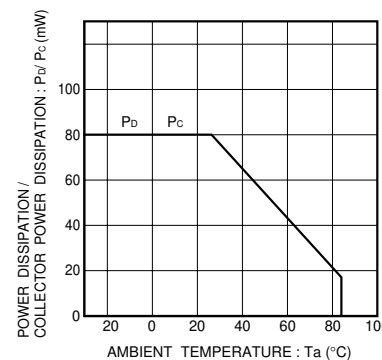


Fig.5 Power dissipation / collector power dissipation vs. ambient temperature

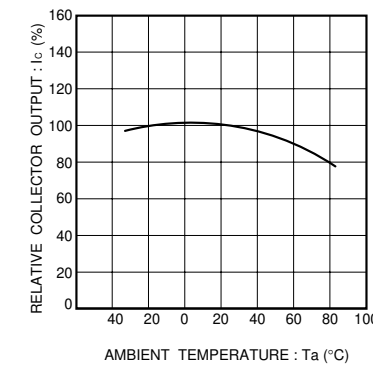


Fig.6 Relative output vs. ambient temperature

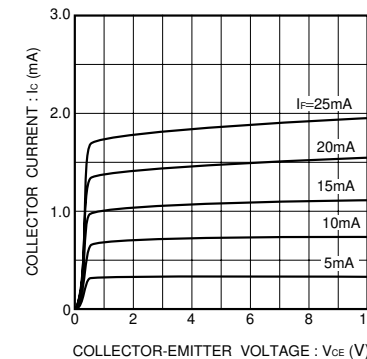


Fig.10 Output characteristics

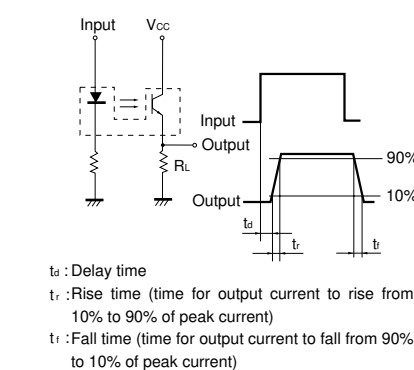


Fig.11 Response time measurement circuit

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