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捷多邦，专业PCB打样工厂，24小时

加急出货

Photointerrupters(Transmissive)

KODENSHI

LG - 205

The LG - 205 photointerrupter combine high output GaAs IRED with photo IC.

The sensor makes possible easy development of objectdetecting systems with high performance, high reliability and small equipment size.

FEATURES

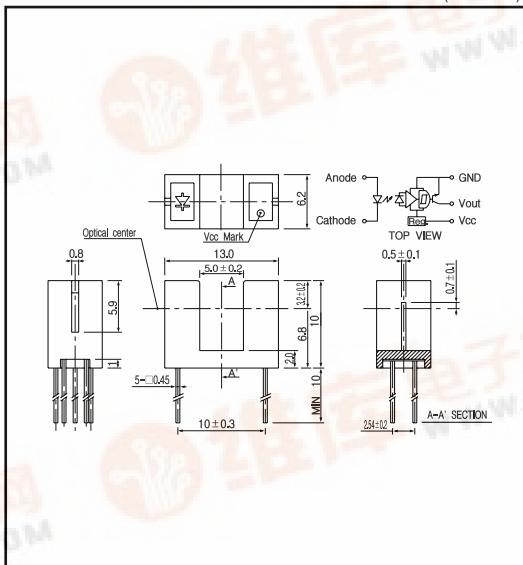
- Built - in amplifier
- Open collector output

APPLICATIONS

- Floppy disk drives
- Copiers
- Facsimiles

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 °C)

	Item	Symbol	Rating	Unit
Input	Power dissipation	P _D	100	mW
	Reverse voltage	V _R	5	V
	Forward current	I _F	60	mA
Output	Supply voltage	V _{CC}	17	V
	Low level output current	I _{OL}	30	mA
	Power dissipation	P	200	mW
Operating temp.		Topr.	- 20 ~ +85	
Storage temp.		Tstg.	- 30 ~ +85	
Soldering temp. ¹		Tsol.	260	

*1. For MAX. 5 seconds at the position of 1mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25 °C)

	Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	Forward voltage	V _F			1.2	1.4	V
	Reverse current	I _R	V _R =5V			10	µA
	Peak wavelength	λ			940		nm
Output	Operating supply voltage range	V _{CC}		4.5		16.5	V
	Low level output voltage	V _{OL}	I _{OL} =16mA, V _{CC} =5V, T=0		0.3	0.4	V
	High level output voltage ²	V _{OH}	I _{OL} =12mA, V _{CC} =5V, R=10K	4.5			V
Transistor	Low level supply current	I _{CCL}	V _{CC} =5V, T=0		3	10	mA
	High level supply current	I _{CHH}	V _{CC} =5V, T=12mA		3	10	mA
	Hysteresis threshold input current	I _{FLH}	V _{CC} =5V		5	12	mA
Transmission	Hysteresis	I _{FLH} /I _{FHL}	V _{CC} =5V	0.5	0.80	0.95	-
	H _{FL} propagation time ³	t _{FLH}	V _{CC} =5V, T=18mA		1	5	µsec.
	H _{FL} propagation time ³	t _{FHL}	R=3.3K		3	15	

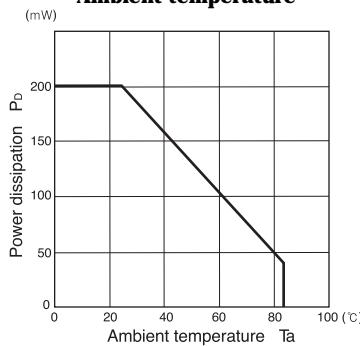
^{2,3} refer to measurement diagram as right side.



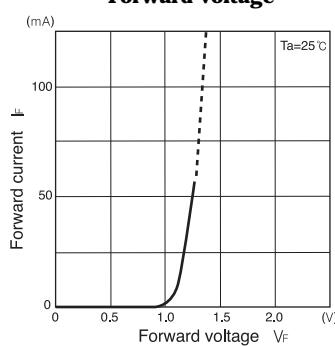
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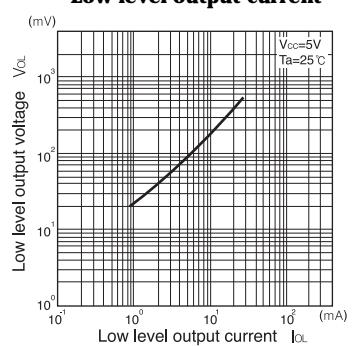
**Power dissipation Vs.
Ambient temperature**



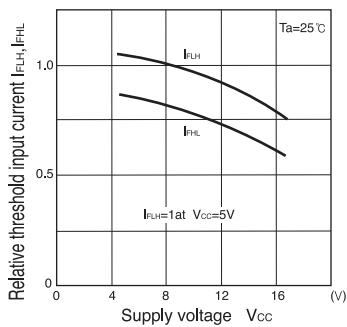
**Forward current Vs.
Forward voltage**



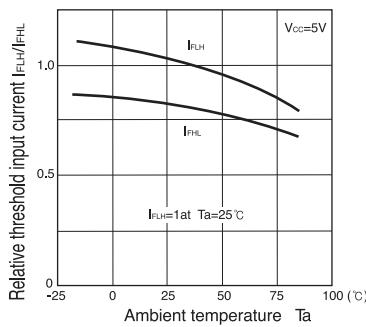
**Low level output voltage Vs.
Low level output current**



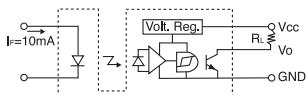
**Relative threshold input current Vs.
Supply voltage**



**Relative threshold input current Vs.
Ambient temperature**



Measurement of high level output voltage



Measurement of propagation time

