

Photointerrupters(Transmissive)

KODENSHI

LG - 206

The LG - 206 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

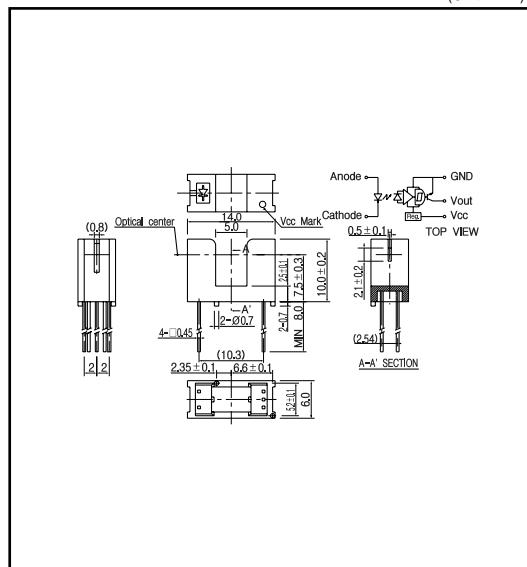
- Built - in amplifier
 - Open collector output

APPLICATIONS

- Floppy disk drives
 - Copiers
 - Facsimiles

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25

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}	16	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. ^{**}		Tsol.	260	

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

ELECTRO-OPTICAL CHARACTERISTICS

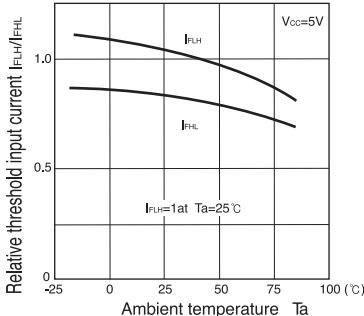
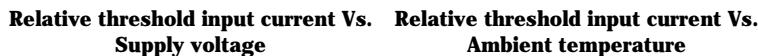
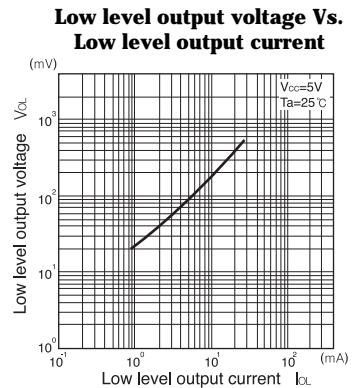
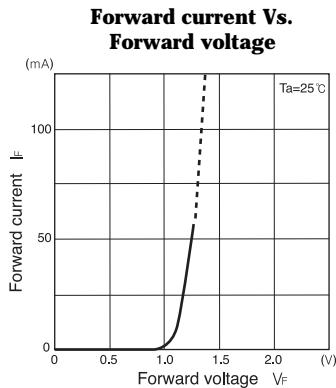
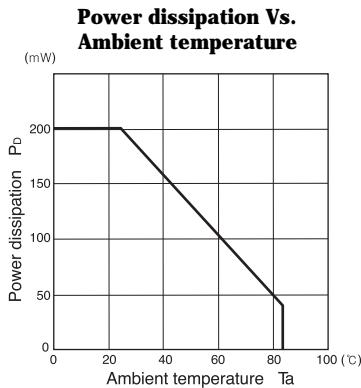
(Ta=25 °C)

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_p			940		nm
Output	Operating supply voltage range	V_{CC}		4.5		17	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}	$I_R=12mA, V_{CC}=5V, R_L=10K$	4.5			V
Transm - ission	Low level supply current	I_{COL}	$V_{CC}=5V, t=0$		3	10	mA
	High level supply current	I_{CCH}	$V_{CC}=5V, t=10mA$		2	10	mA
	L ₃ H threshold input current	$ I_{FLH} $	$V_{CC}=5V$		5	12	mA
	Hysteresis	$ I_{FHU}/ I_{FLH} $	$V_{CC}=5V$	0.60	0.83	0.98	-
	L ₃ H propagation time ³	t_{PLH}	$V_{CC}=5V, I=18mA$		1		$\mu sec.$
	H ₃ L propagation time ³	t_{PHL}	$R_L=3.3K$		3		

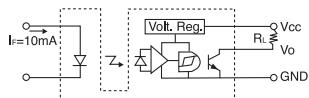
*2, *3, refer to measurement diagram as right side.

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Measurement of high level output voltage



Measurement of propagation time

