

LG - 248

The LG – 248 photointerrupter combine high output GaAs IRED with Photo IC. The sensor makes possible easy development of object detecting systems with highperformance, high reliability and small equipment size.

LG - 248L1 : High level output at shielding

LG - 248D1 : Low level output at shielding

FEATURES

- Connector type AMP(JAPAN)Ltd.
- GAP : 5.0mm
- Snap– in mount
- 3 kinds of mounting plate thicknesses : 1.0mm, 1.2mm, 1.6mm

APPLICATIONS

- Copiers
- Printers
- Auto stampers
- Ticket vending machines

MAXIMUM RATINGS

(Ta=25)

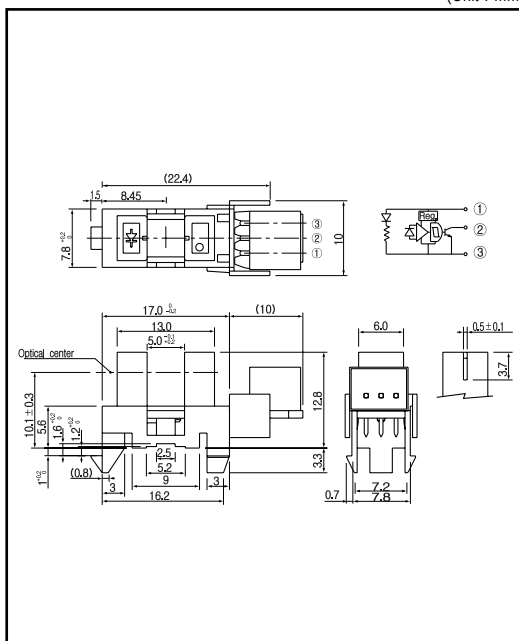
Item	Symbol	Rating	Unit
Supply voltage	V_{CC}	8	V
Output voltage	V_O	12	V
Low level output current	I_{OL}	16	mA
Power dissipation	P	100	mW
Operating temp.*1*2	Topr.	- 25 ~ +75	
Storage temp.*1*2	Tstg	- 30 ~ +85	

*1. The connector shall be inserted or pulled out at normal temperature.

*2. No icebound or dew

DIMENSIONS

(Unit : mm)

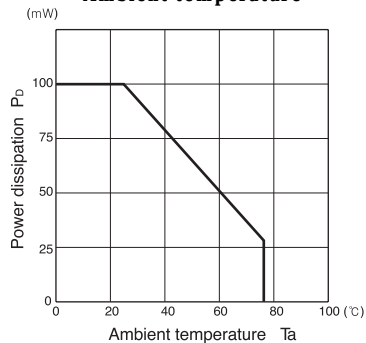


ELECTRO-OPTICAL CHARACTERISTICS

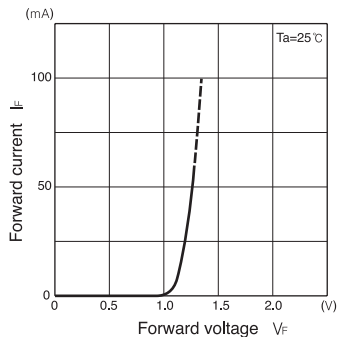
(Ta=25)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Operating supply voltage rang	V_{CC}		4.5		5.5	V
Low level output voltage	V_{OL}	$V_{CC} = 5V, I_{OL} = 16mA, (Shading)$		0.3	0.4	V
High level output voltage	V_{OH}	$V_{CC} = 5V, R_L = 10k \Omega, (Non-shading)$	4.5			V
Low level supply current	I_{CCL}	$V_{CC} = 5V, (Shading)$		20	35	mA
High level supply current	I_{CCH}	$V_{CC} = 5V, (Non-shading)$		20	35	mA
Frequency	f	$V_{CC} = 5V, R_L = 10k \Omega$	3000			Hz

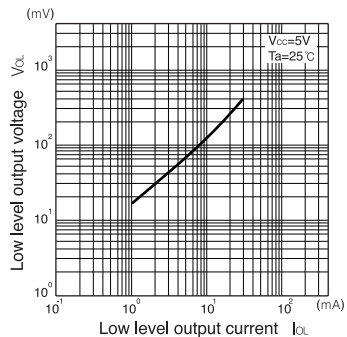
**Power dissipation Vs.
Ambient temperature**



**Forward current Vs.
Forward voltage**



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



**Low level output voltage Vs.
Ambient temperature**

