

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)

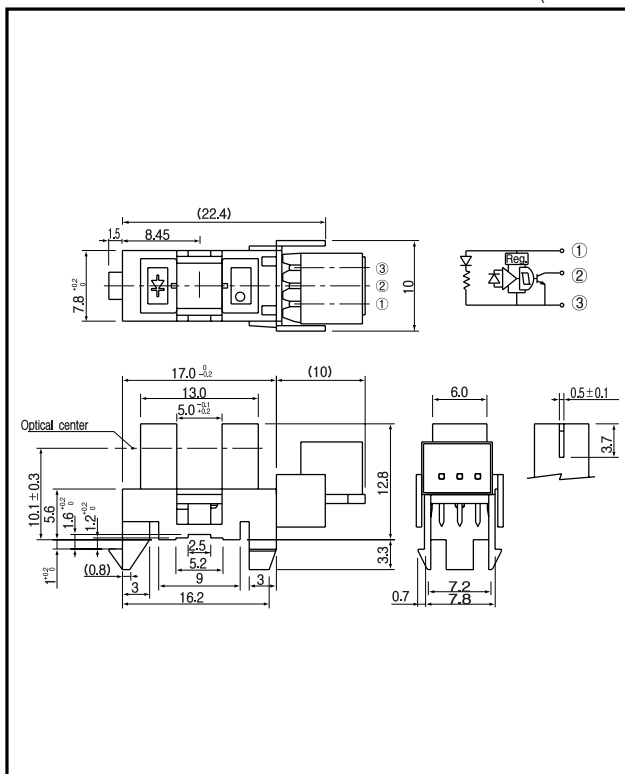
Item	Symbol	Rating	Unit
Supply voltage	V _{cc}	8	V
Output voltage	V _o	12	V
Low level output current	I _{oL}	16	mA
Power dissipation	P	100	mW
Operating temp.*1.*2	T _{opr.}	- 25 ~ + 75	
Storage temp.*1.*2	T _{stg}	- 30 ~ + 85	

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

*2. No icebound or dew

DIMENSIONS

(Unit : mm)



ELECTRO-OPTICAL CHARACTERISTICS

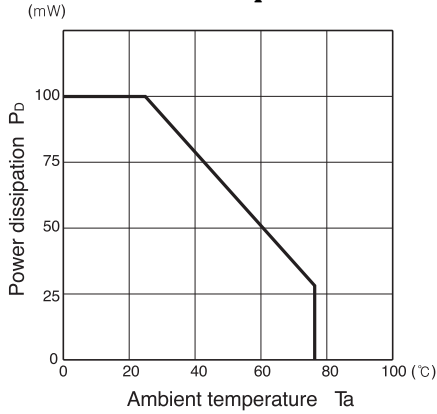
(Ta=25)

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 _Ω , (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	3000			Hz

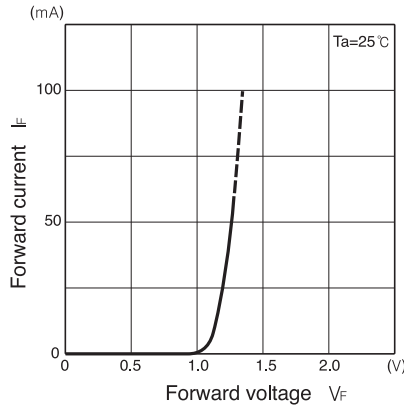
Photointerrupters(Transmissive)

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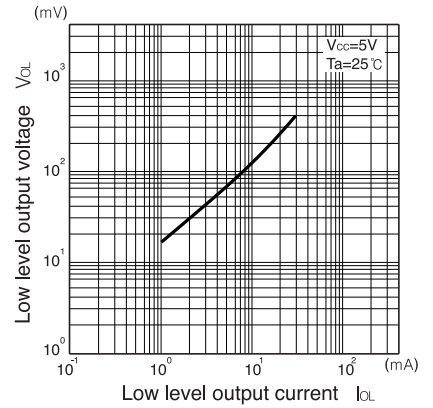
Power dissipation Vs. Ambient temperature



Forward current Vs. Forward voltage



Low level output voltage Vs. Low level output current



Low level output voltage Vs. Ambient temperature

