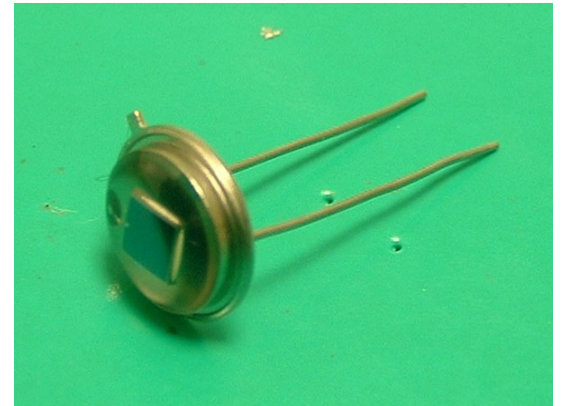


## General Description

The OHP-3ML is a high output, high speed silicon photodiode mounted in TO-5 type header with clear epoxy encapsulation.

## Features

- Wide angular response
- High output power
- High speed response
- Meet RoHS



## Applications

- Optical counters
- Optical detector
- Infrared sensors

## MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Rating	Unit
Reverse voltage	$V_R$	5	V
Operating temperature.	$T_{opr}$	-20 ~ +80	°C
Storage temperature.	$T_{stg}$	-30 ~ +100	°C
Soldering temperature. *1	$T_{sol}$	260	°C

\* 1 For MAX. 5 seconds at the position of 2mm from the package

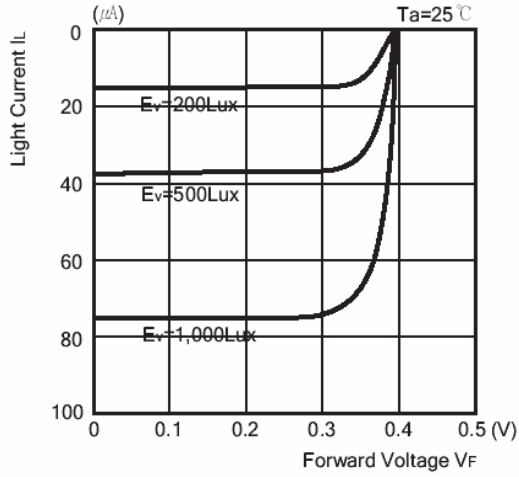
## ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

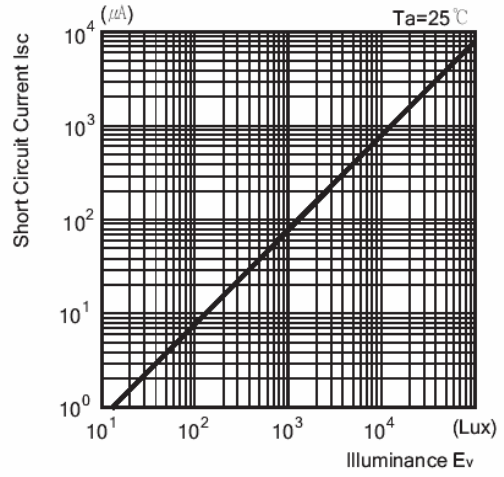
Item	Symbol	Condition	Min	Typ	Max	Unit
Dark current	$I_d$	$V_{cc} = 5V$			1	uA
Open circuit voltage	$V_{oc}$	$E_v = 1000 \text{ Lux} \text{ *2}$		0.38		V
Short circuit current	$I_{sc}$		54	75		uA
Curve Factor	C.F.		0.55			-
Capacitance	$C_t$	$V = 0V, f = 1MHz$		180		pF
Total capacitance of $V_{oc}$	$\alpha t$			-2.2		% / °C
Total capacitance of $I_{sc}$	$\beta t$			0.18		% / °C
Spectral Sensitivity	$\lambda$		450 ~ 1050			nm
Peak sensitive wavelength	$\lambda_p$			900		nm
Half angle	$\Delta \theta$			±60		deg.

\* 2 Color temp. = 2856K standard tungsten lamp.

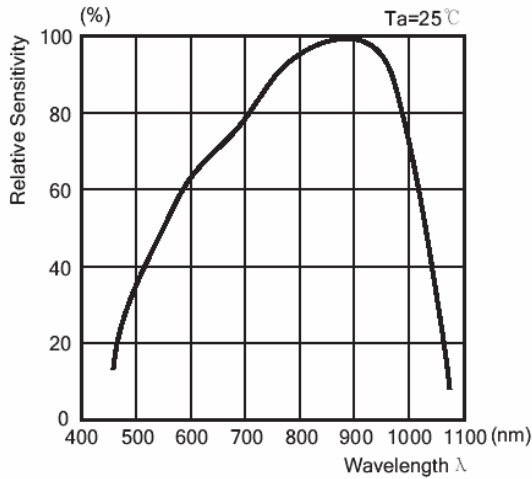
● Light Current / Forward Voltage  $I_L/V_F$



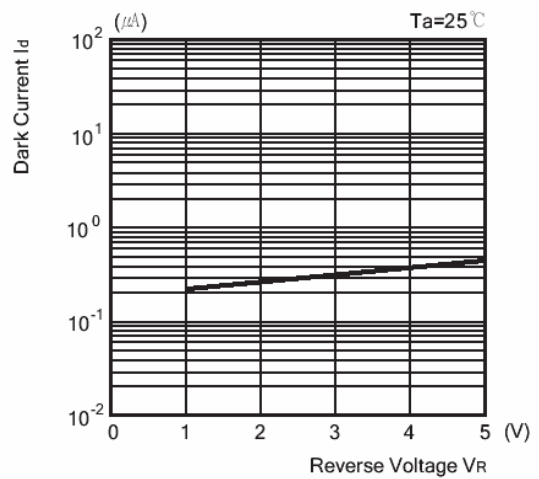
● Short Circuit Current / Illuminance  $I_{sc}/E_v$



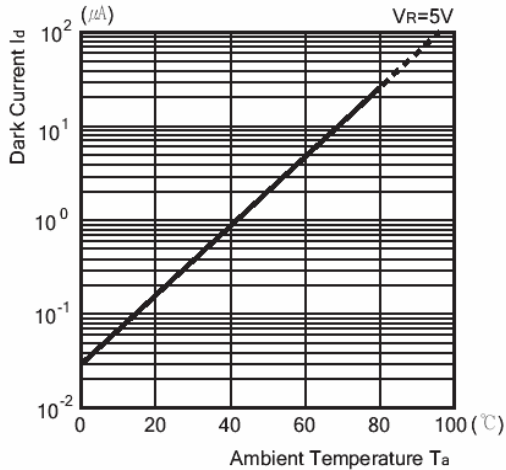
● Spectral Sensitivity



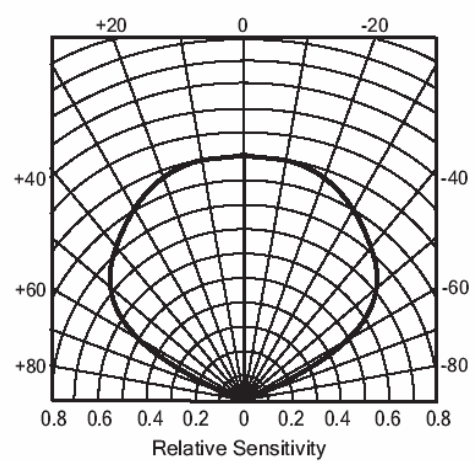
● Dark Current / Reverse Voltage  $I_d/V_R$



● Dark Current / Ambient Temperature  $I_d/T_a$



● Directive Characteristics



## DIMENSIONS

(Unit: mm)

