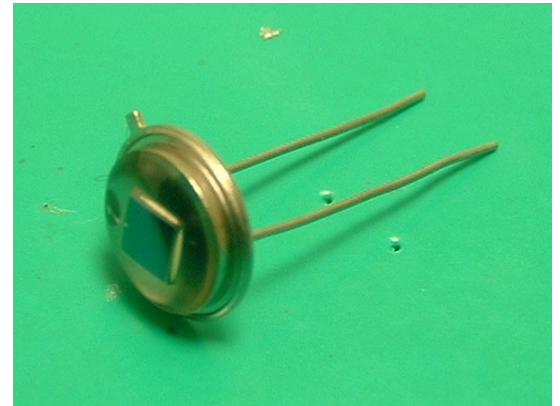


General Description

The OHP-45ML 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 secends at the position of 2mm from the package

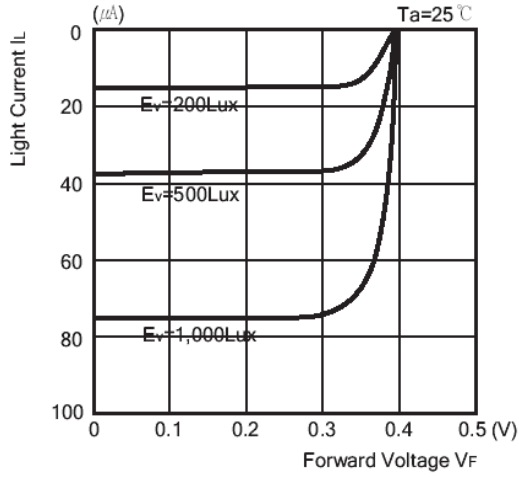
ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

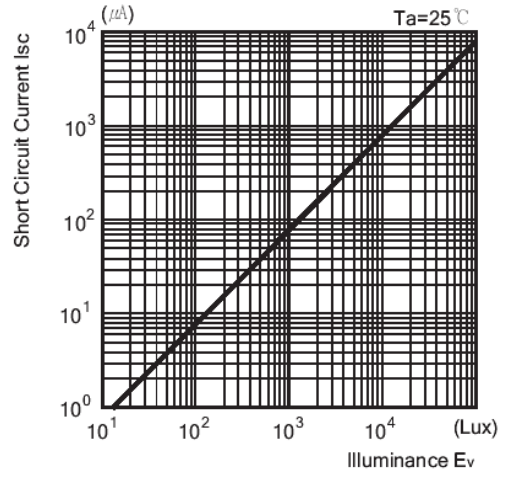
Item	Symbol	Condition	Min	Typ	Max	Unit
Dark current	I_d	$V_{cc} = 5V$			1	uA
Open circuit voltage	V_{oc}	$E_v = 1000 \text{ Lux} \text{ *2}$		0.38		V
Short circuit current	I_{sc}		75	180		uA
Curve Factor	C.F.		0.55			-
Capacitance	C_t	$V = 0V, f = 1MHz$		1050		pF
Total capacitance of V_{oc}	αt			-2.2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

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

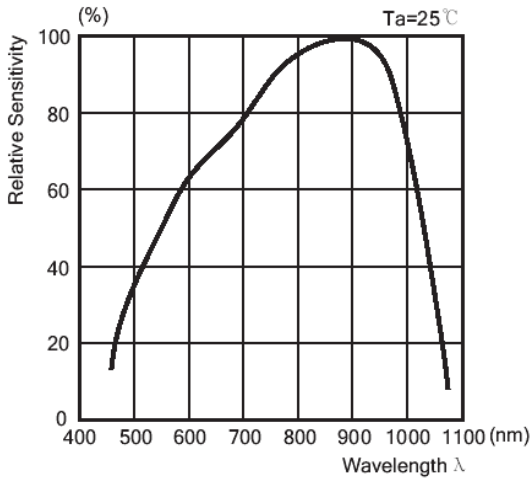
● Light Current / Forward Voltage I_L/V_F



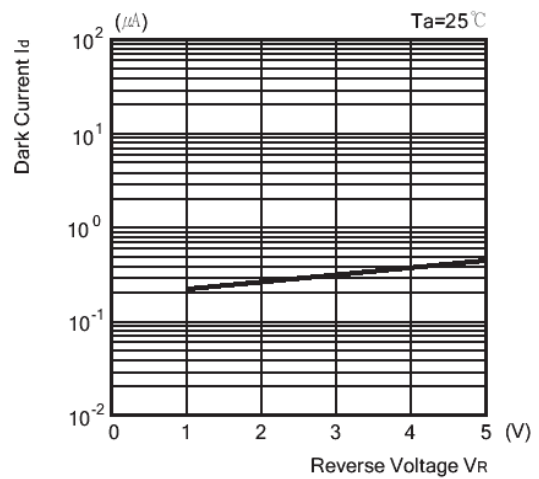
● Short Circuit Current / Illuminance I_{sc}/E_v



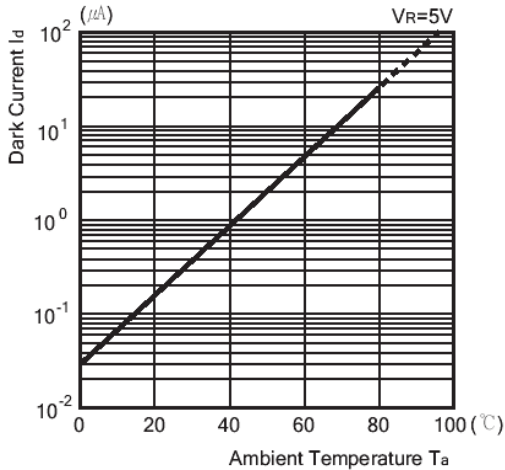
● Spectral Sensitivity



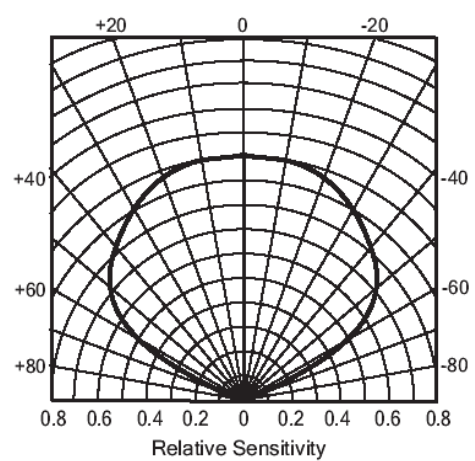
● Dark Current / Reverse Voltage I_d/V_R



● Dark Current / Ambient Temperature I_d/T_a



● Directive Characteristics



DIMENSIONS

(Unit: mm)

