

The OHP-45MLR2 is a silicon photodiode mounted in TO-5 type header with daylight filtered epoxy encapsulation and provides wide angular response and high output power.

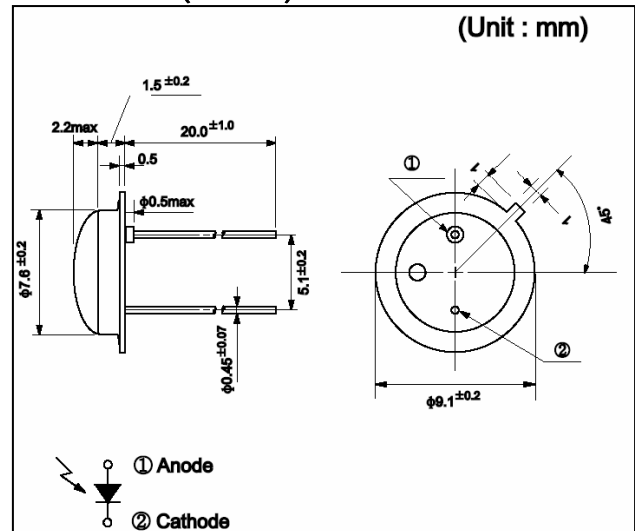
FEATURES

- High output power
- Wide angular response
- Daylight filtered

APPLICATIONS

- Optical detectors
- Optical counters
- Infrared sensors
- Smoke detectors

DIMENSIONS (Unit : mm)



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	10	V
Operating temperature	Topr.	-20 +90	
Storage temperature	Tstg.	-30 +100	
Soldering temperature *1	Tsol.	260	

*1 For max. 5 seconds at the position of 2mm from the resin edge

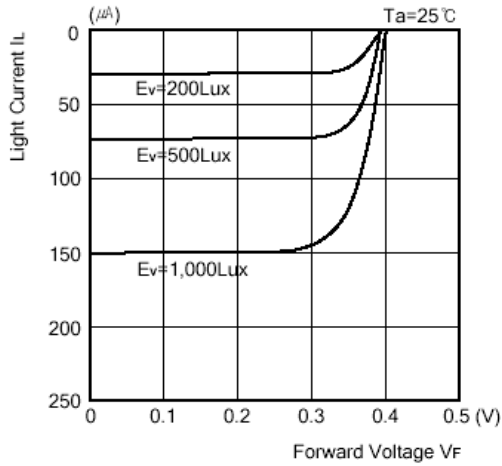
ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

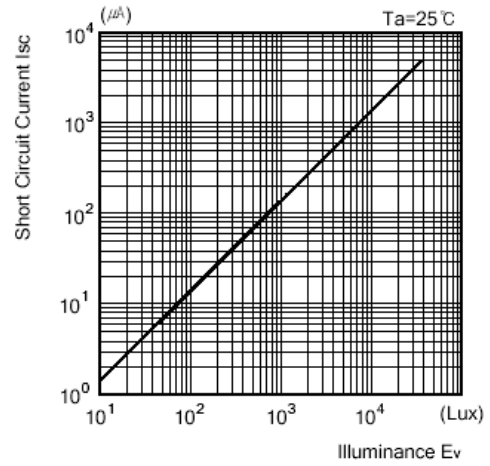
Item	Symbol	Conditions	OHP-45MLR2			Unit
			Min.	Typ.	Max.	
Open Circuit Voltage	V_{OC}	$E_V=1,000$		0.37		V
Short Circuit Current	I_{SC}	Lux ²	90	150		μA
Dark Current	I_d	$V_R=5V$			2	μA
Curve Factor	C.F.		0.55			-
Capacitance	C_t	$V=0V, f=1MHz$		700		pF
Temp. Coefficient of V_{OC}	t			-2.2		mV/
Temp. Coefficient of I_{SC}	t			0.18		%/
Spectral Sensitivity			720	1,050		nm
Peak Wavelength	p			940		nm
Half Angle				±60		deg.

*2 Color temp.=2856K standard Tungsten lamp

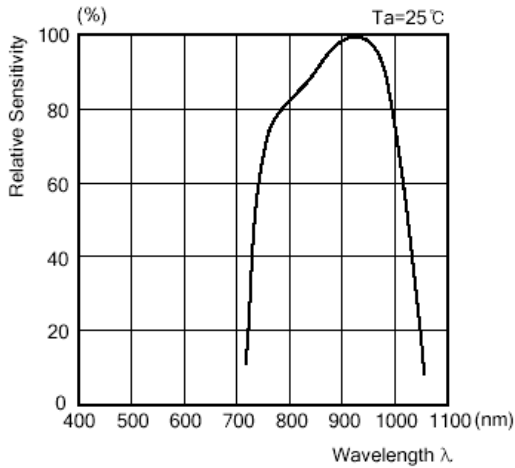
● Light Current / Forward Voltage I_L/V_F



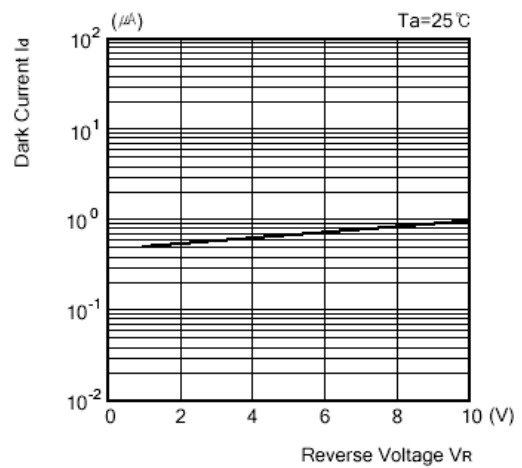
● Short Circuit Current / Illuminance I_{sc}/E_v



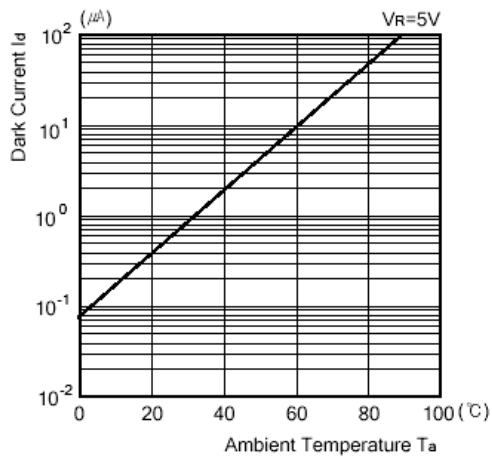
● Spectral Sensitivity



● Dark Current / Reverse Voltage I_d/V_R



● Dark Current / Ambient Temperature I_d/T_a



● Directive Characteristics

