

The OHP-2MLR2 is a high-output, high-speed silicon photodiode mounted in TO-18 type header with clear epoxy encapsulation. This photodiode has wide angular response and daylight filter.

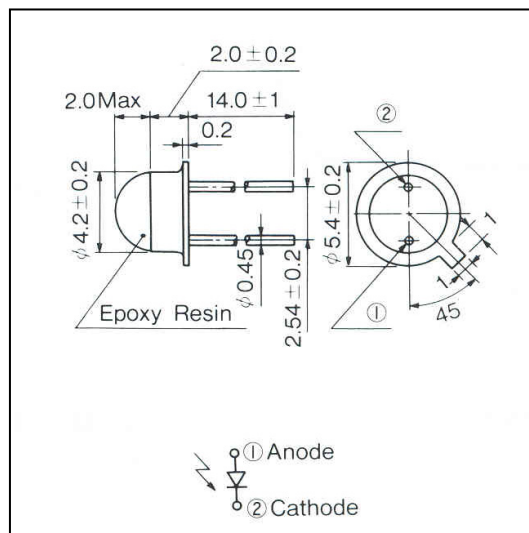
FEATURES

- High-output power
- High-speed response
- Wide angular response
- Relatively low-cost against metal can package

APPLICATIONS

- Optical detectors
- Optical switches

DIMENSIONS (Unit : mm)



(Ta=25)

MAXIMUM RATINGS

Item	Symbol	Rating	Unit
Reverse voltage	V_R	5	V
Operating temperature	Topr.	-20 +80	
Storage temperature	Tstg.	-20 +80	
Soldering temperature ^{*1}	Tsol.	260	

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

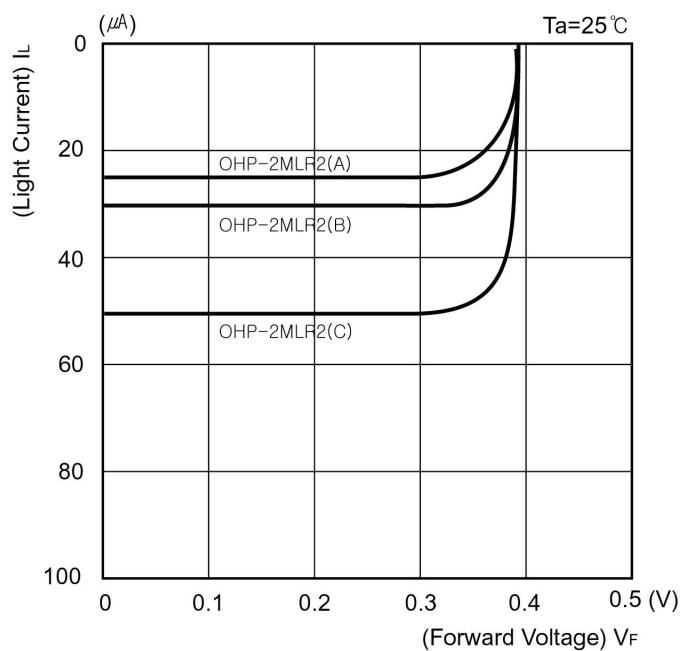
ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

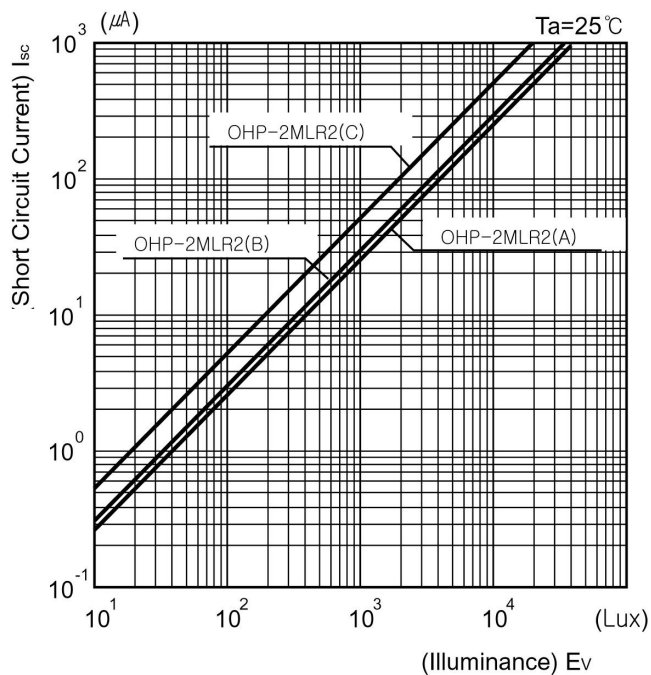
Item	Symbol	Conditions	OHP-2MLR2(A)			OHP-2MLR2(B)			OHP-2MLR2(C)			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Open Circuit Voltage	V_{OC}	$E_V=1,000$		0.37			0.37			0.37		V
Short Circuit Current	I_{SC}	Lux ^{*2}		25			30			52		μA
Dark Current	I_d	$V_R=5V$			1			1			1	μA
Curve Factor	C.F.		0.55			0.55			0.55			-
Capacitance	C_t	$V=0V, f=1MHz$		60			60			60		pF
Temp. Coefficient of V_{OC}	αt			-2.2			-2.2			-2.2		mV/
Temp. Coefficient of I_{SC}	βt			0.18			0.18			0.18		%/
Spectral Sensitivity	λ		700 1,050									nm
Peak Wavelength	λp			940			940			940		nm
Half Angle	$\Delta \theta$			±60			±60			±60		deg.

^{*2} Color temp.=2856K standard Tungsten lamp

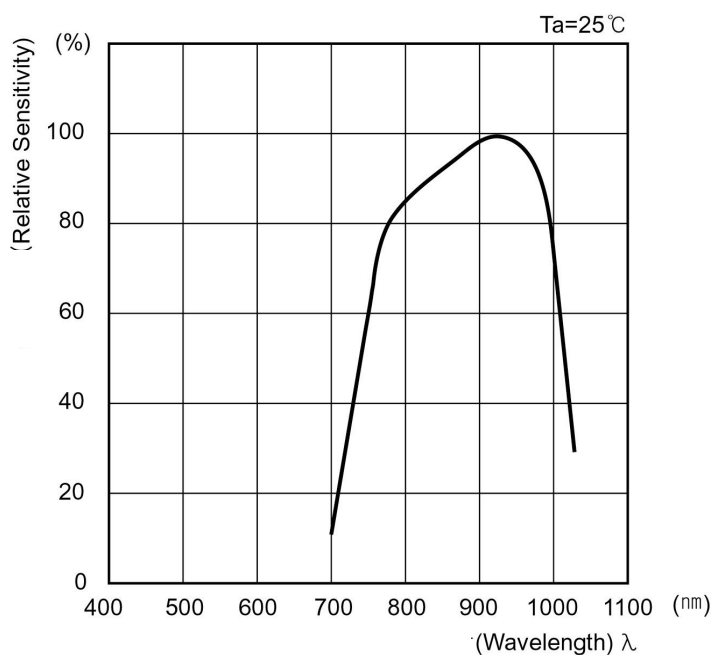
■ Light Current / Forward Voltage I_L/V_F



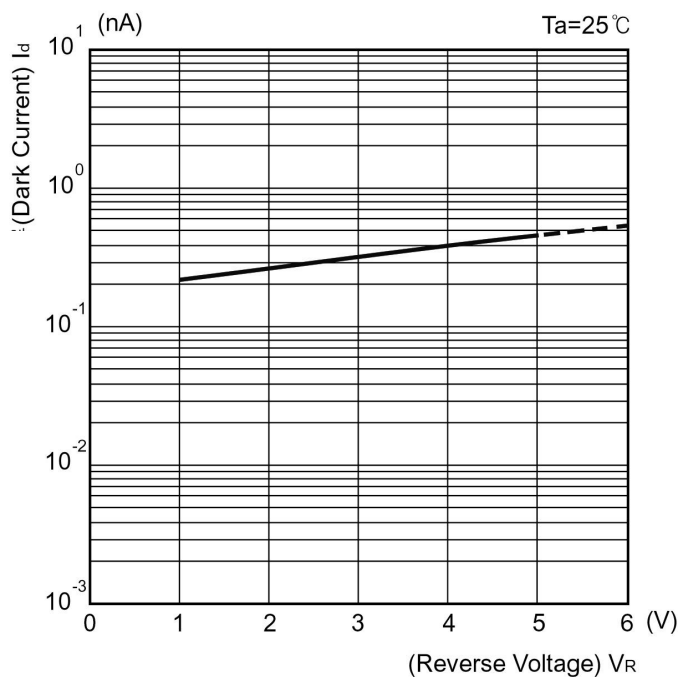
■ Short Circuit Current / Illuminance I_{sc}/E_v



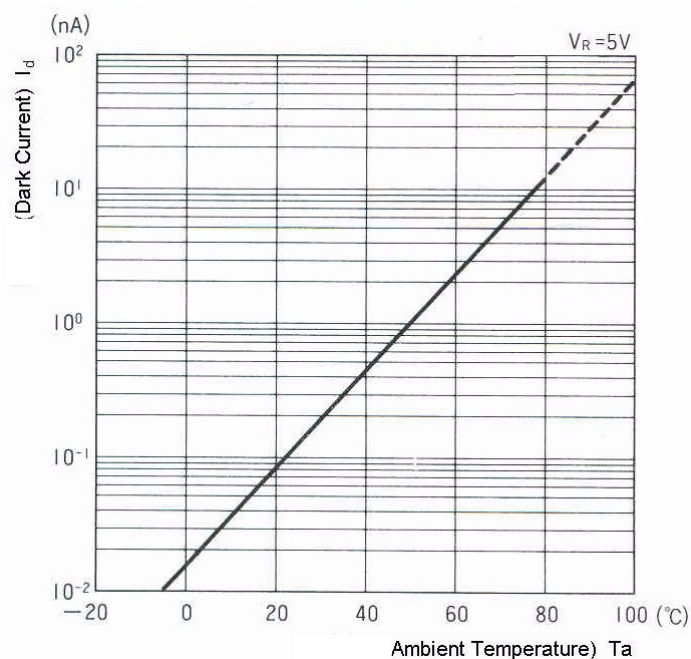
■ Spectral Sensitivity



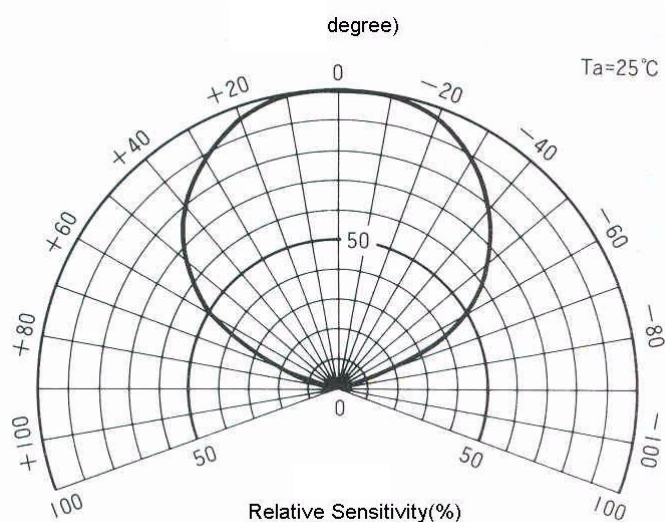
■ Dark Current / Reverse Voltage I_d/V_R



■ Dark Current / Ambient Temperature I_d/T_a



■ Directive Characteristics



■ Capacitance between Terminals / Reverse Voltage C_t/V_R

