OHP-2ML

PHOTODIODES

The OHP-2ML is a high-output, high-speed silicon photodiode mounted in TO-18 type header with clear epoxy encapsulation and permits angular response.

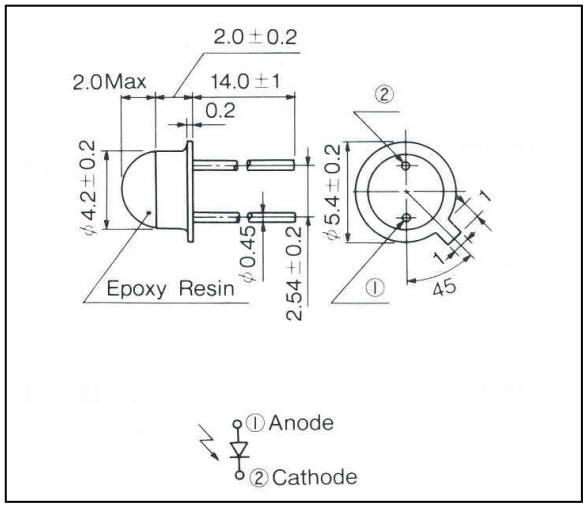
FEATURES

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

APPLICATIONS

- Optical detectors
- Optical switches

DIMENSIONS (Unit : ㎜)



MAXIMUM RATINGS

(Ta=25°C)

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

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

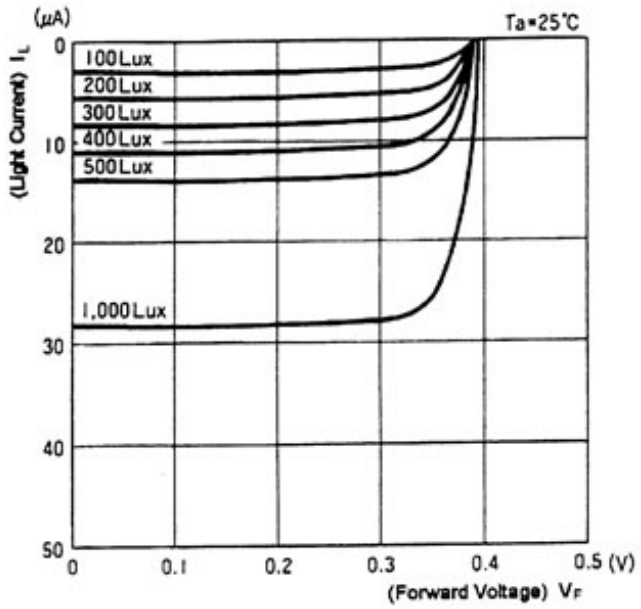
ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25°C)

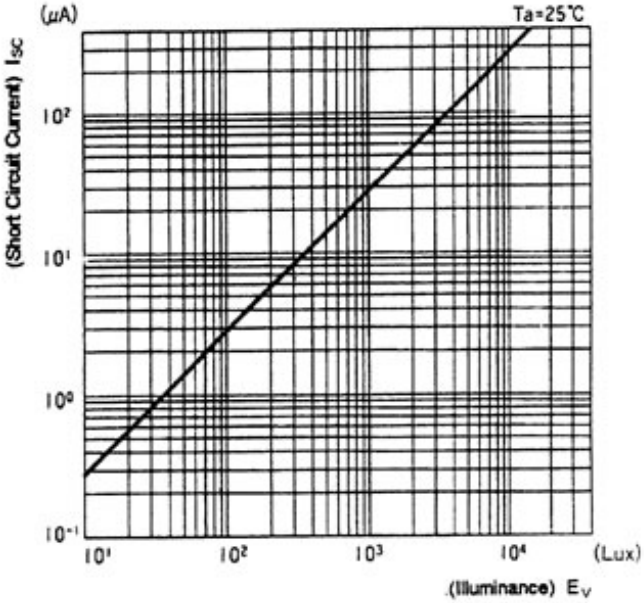
Item	Symbol	Conditions	OHP-2ML			Unit
			Min.	Typ.	Max.	
Open Circuit Voltage	V_{OC}	E_V=1,000 Lux*2		0.38		V
Short Circuit Current	I_{SC}			28		μA
Dark Current	I_d	V_R=5V			1	μA
Curve Factor	C.F.		0.55			-
Capacitance	C_t	V=0V, f=1㎒		60		pF
Temp. Coefficient of V_{OC}	αt			-2.2		㎷/°C
Temp. Coefficient of I_{SC}	βt			0.18		%/°C
Spectral Sensitivity	λ		450 1,050			㎚
Peak Wavelength	λp			900		㎚
Half Angle	Δθ			±60		deg.

*2 Color temp.=2856K standard Tungsten lamp

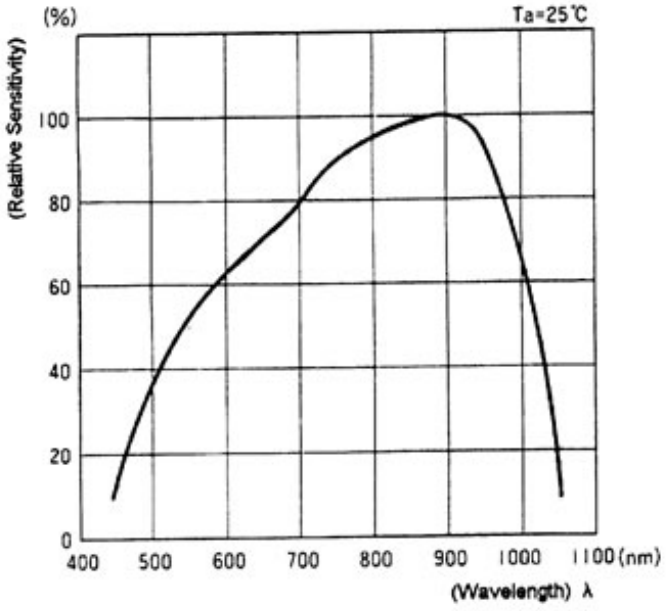
■ Light Current / Forward Voltage I_L/V_F



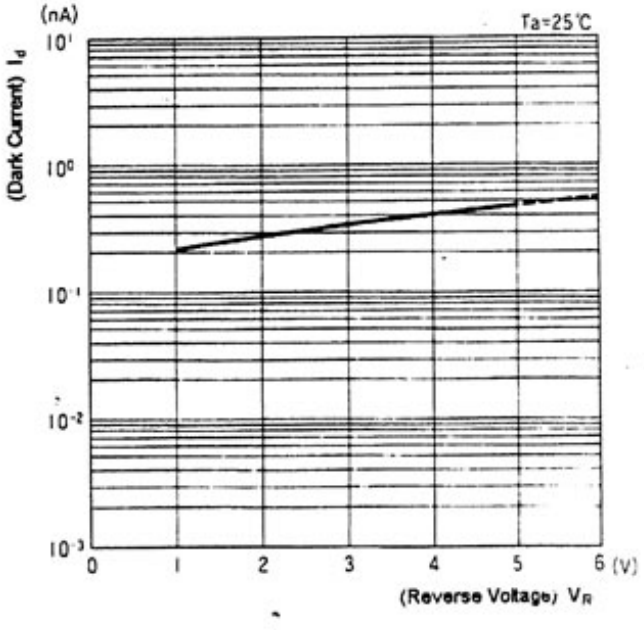
■ Short Circuit Current / Illuminance I_{SC}/E_V



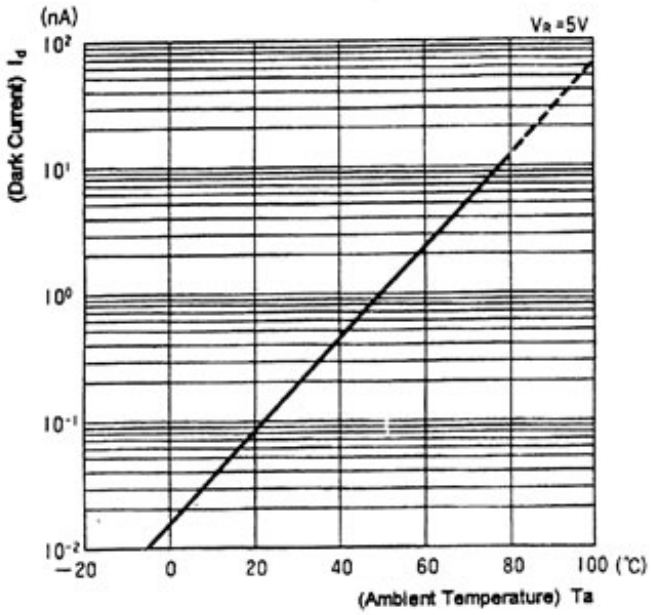
■ Spectral Sensitivity



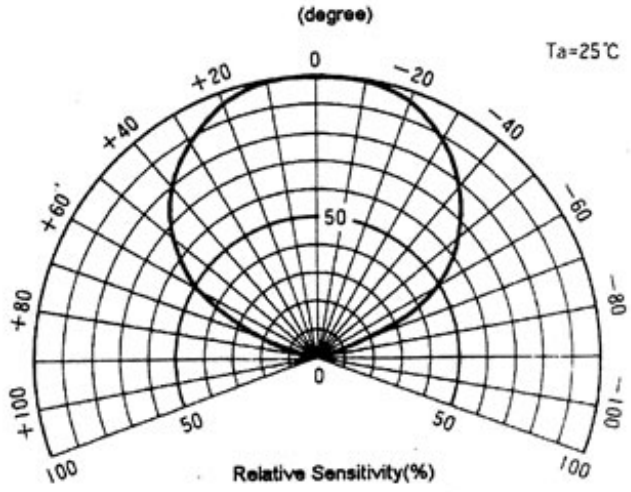
■ Dark Current / Reverse Voltage I_d/V_R



■ Dark Current / Ambient Temperature I_d / T_a



■ Directive Characteristics



■ Capacitance between Terminals / Reverse Voltage C_t / V_R