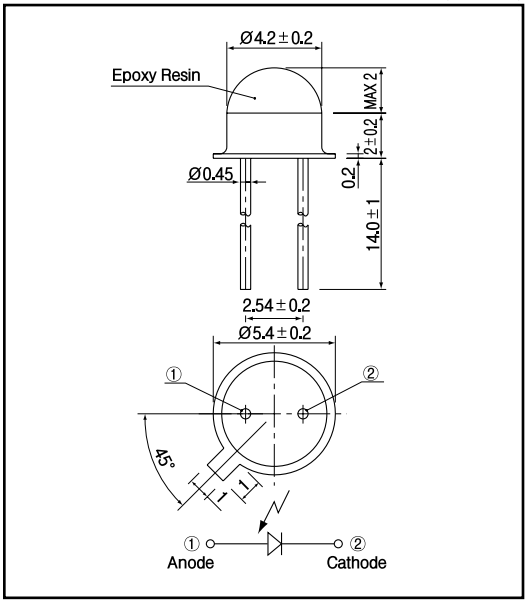
HP - 2ML

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

DIMENSIONS (Unit : mm)



FEATURES

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

APPLICATIONS

- Optical detectors
- Optical switches

MAXIMUM RATINGS (Ta=25℃)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	5	V
Operating temp.	Topr.	- 20 ~ +80	℃
Storage temp.	Tstg.	- 20 ~ +80	℃
Soldering temp. *1	Tsol.	260	℃

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

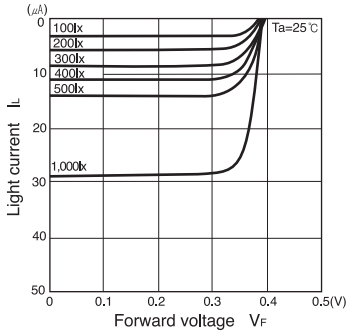
ELECTRO-OPTICAL CHARACTERISTICS (Ta=25℃)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V_{OC}	E_V=1,000lx *2		0.38		V
Short circuit current	I_{SC}			28		μA
Dark current	Id	V_R=5V			1	μA
Curve factor	C.F.		0.55			-
Capacitance	Ct	V=0V, f=1MHz		60		pF
Temperature coefficient of V_{OC}	αt			- 2.2		mV/℃
Temperature coefficient of I_{SC}	βt			0.18		%/℃
Spectral sensitivity	λ		450~1,050			nm
Peak wavelength	λp			900		nm
Half angle	Δθ			±60		deg.

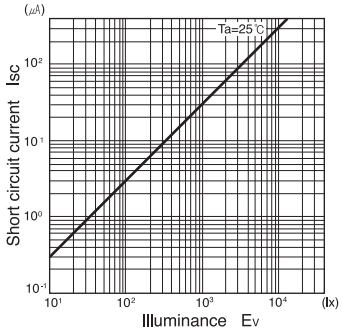
*2. Color temp.=2856K standard Tungsten lamp

HP - 2ML

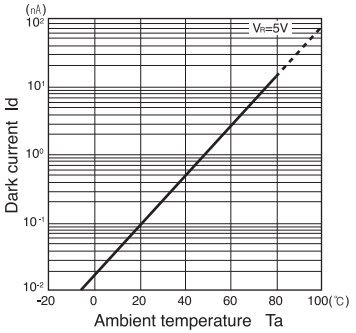
Light current Vs. Forward voltage



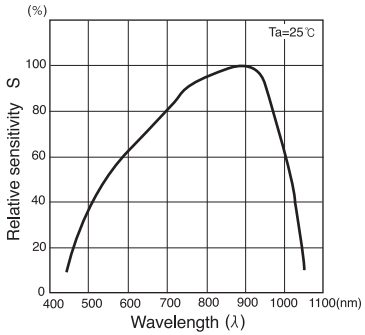
Short circuit current Vs. Illuminance



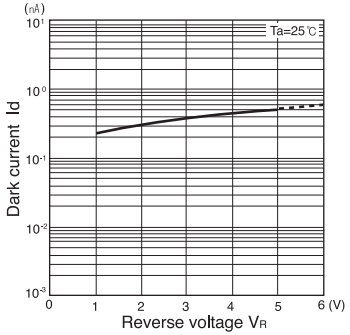
Dark current Vs. Ambient temperature



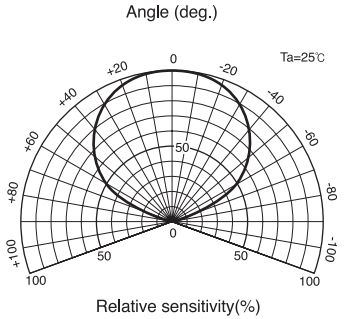
Relative sensitivity Vs. Wavelength



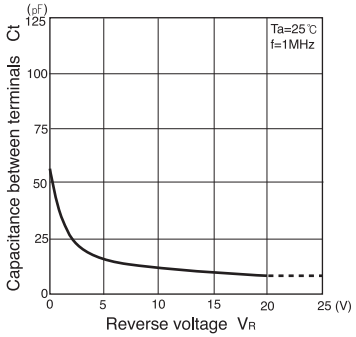
Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage



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