

HP - 2MLR

The HP-2MLR is a high-output, high-speed silicon photodiode mounted in a TO-18 type metal stem with a visible light cut-off filter, permitting wide angular response.

FEATURES

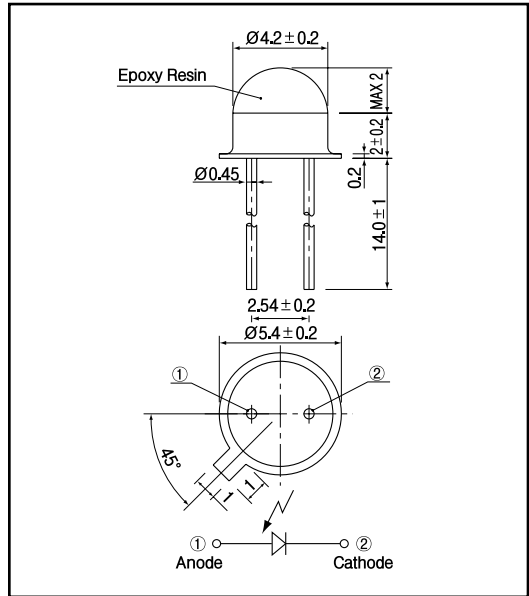
- TO-18 visible ray cut off resin potting type
- Wide angular response ±60deg.

APPLICATIONS

- Optical switches
- Optical transmissions
- Financial equipment

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _r	20	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)

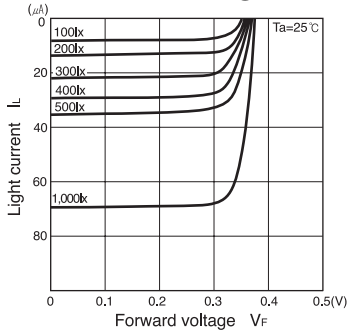
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V _{oc}	EV=1,000lx ⁻²		0.38		V
Short circuit current	I _{sc}	EV=1,000lx ⁻²	45	70		µA
Curve factor	C.F.		0.55			-
Dark current	I _d	V _r =10V			10	nA
Capacitance	C _t	V=0V, f=1MHz		73		pF
Temperature coefficient of V _{oc}	t			- 2.2		mV/
Temperature coefficient of I _{sc}	t			0.18		%/
Spectral sensitivity				600~1,050		nm
Peak wavelength	ρ			900		nm
Half angle				±60		deg.

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

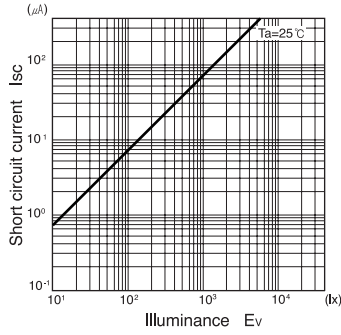
Photo diodes

HP - 2MLR

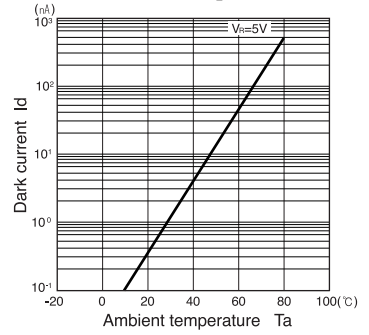
Light current Vs. Forward voltage



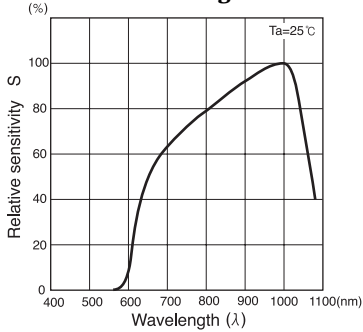
Short circuit current Vs. Illuminance



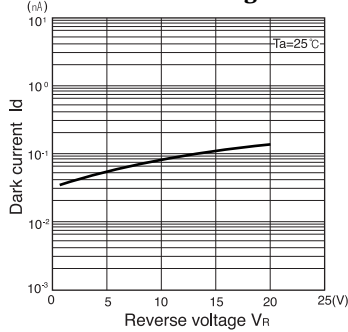
Dark current Vs. Ambient temperature



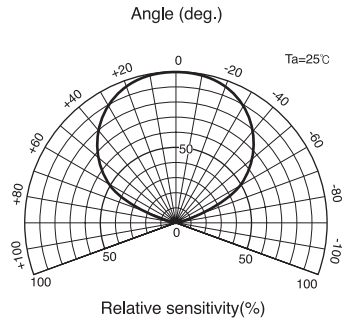
Relative sensitivity Vs. Wavelength



Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage

