

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

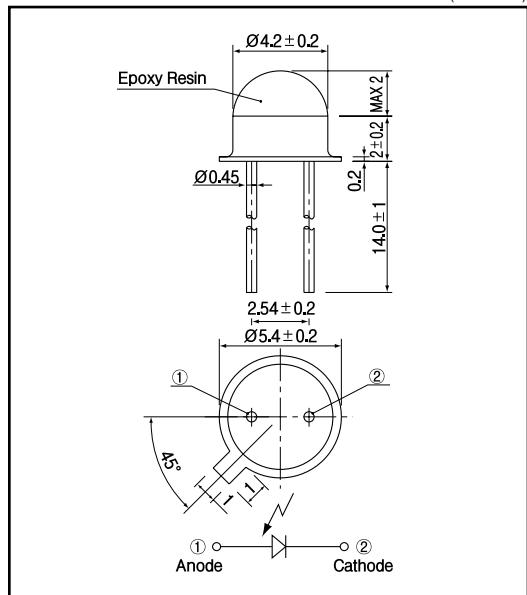
- TO-18 visible ray cut off resin potting type
- Wide angular response $\pm 60\text{deg}$.

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/°C
Temperature coefficient of I _c	t			0.18		%/°C
Spectral sensitivity			600~1,050			nm
Peak wavelength	λ			900		nm
Half angle				±60		deg.

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

Photo diodes

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