

## HP - 3ML · HP - 3MLR2

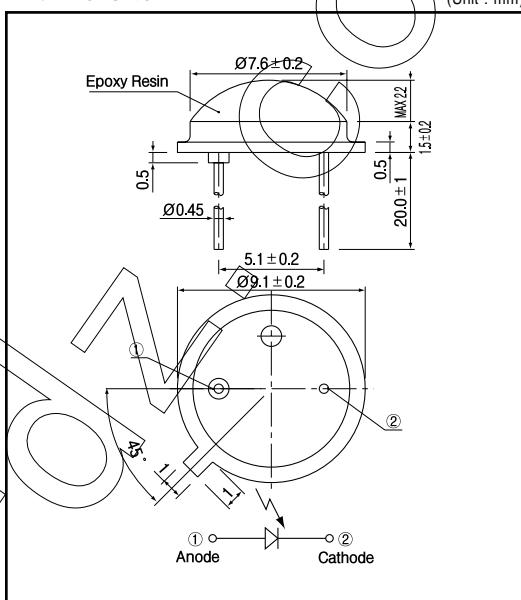
The HP - 3ML is a high - output, high - speed photodiode mounted in a TO - 18 type header with clear epoxy encapsulation. The HP - 3MLR2 photodiode, with daylight filter, is available in the same package.

**FEATURES**

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

**APPLICATIONS**

- Optical detectors
- Optical switches

**DIMENSIONS****MAXIMUM RATINGS**

Item	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	5	V
Operating temp.	T <sub>opr.</sub>	-20 ~ +80	
Storage temp.	T <sub>stg.</sub>	-30 ~ +100	
Soldering temp. <sup>1)</sup>	T <sub>sol.</sub>	260	

<sup>1)</sup> For MAX.5 seconds at the position of 2 mm from the package

**ELECTRO-OPTICAL CHARACTERISTICS**

(Ta=25 )

Item	Symbol	Conditions	HP - 3ML			HP - 3MLR2			Unit.
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Open circuit voltage	V <sub>oc</sub>	E <sub>V</sub> =1,000lx <sup>2)</sup>		0.38			0.30		V
Short circuit current	I <sub>sc</sub>		54	75			60		μA
Dark current	I <sub>d</sub>	V <sub>R</sub> =5V			1			10	μA
Curve factor	C.F.		0.55			0.55			-
Capacitance	C <sub>t</sub>	V=0V, f=1MHz		180			180		pF
Temperature coefficient of V <sub>oc</sub>	t			-2.2			-2.2		mV/°C
Temperature coefficient of I <sub>sc</sub>	t			0.18			0.18		/%
Spectral sensitivity			450~1,050			700~1,050			nm
Peak wavelength	λ		900			940			nm
Half angle			±60			±60			deg.

<sup>2)</sup> Color temp.=2856K standard Tungsten lamp

## Photo diodes

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