

## SP - 3ML

The SP - 3ML, a silicon photodiode mounted in a TO - 5 type header with clear epoxy encapsulation, has wide angular response and is relatively low - cost as compared to TO - 18 can - type devices.

**FEATURES**

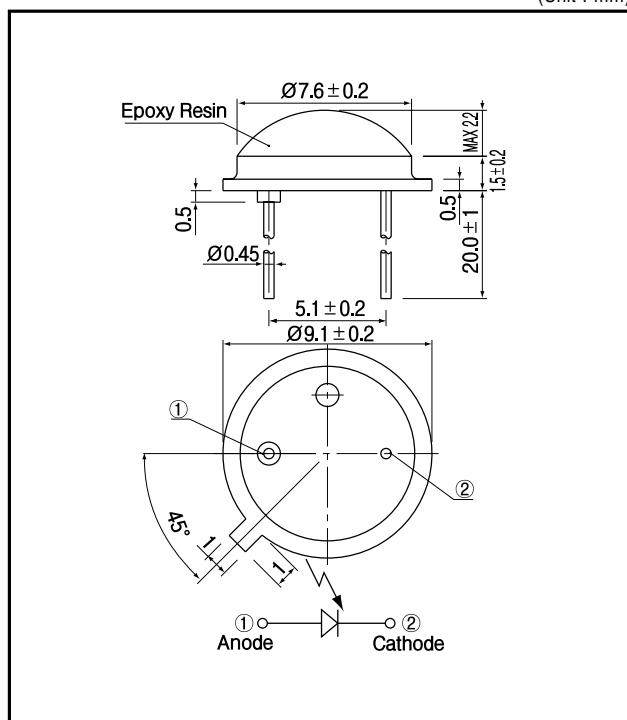
- High - output power
- Relatively low - cost against metal can package
- Wide angular response

**APPLICATIONS**

- Optical detectors
- Infrared sensors
- Smoke detectors

**DIMENSIONS**

(Unit : mm)

**MAXIMUM RATINGS**

(Ta=25 °C)

Item	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	5	V
Operating temp.	Toopr.	- 20 ~ + 80	
Storage temp.	Tstg.	- 30 ~ + 100	
Soldering temp. <sup>*1</sup>	Tsol.	260	

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

**ELECTRO-OPTICAL CHARACTERISTICS**

(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V <sub>oc</sub>	E <sub>v</sub> =1,000lx <sup>*2</sup>		0.38		V
Short circuit current	I <sub>sc</sub>		54	75		µA
Dark current	I <sub>d</sub>		-	-	-	µA
Curve factor	C.F.		0.55			-
Capacitance	C <sub>t</sub>	V=0V, f=1MHz		480		pF
Temperature coefficient of V <sub>oc</sub>	t			- 2.2		mV/°C
Temperature coefficient of I <sub>sc</sub>	t			0.18		%/°C
Spectral sensitivity				450 ~ 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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