

SP - 45ML

The SP - 45ML, a silicon photodiode mounted in a TO - 5 type header with clear epoxy encapsulation, provides wide angular response and high - output power.

FEATURES

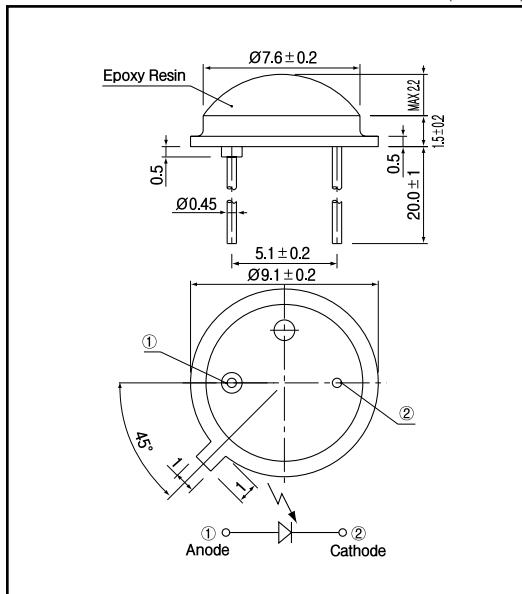
- High - output power
- Relatively low - cost against metal can package
- Wide angular response

APPLICATIONS

- Optical detectors
- Infrared sensors
- Smoke detectors

DIMENSIONS

(Unit : mm)

**MAXIMUM RATINGS**

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	5	V
Operating temp.	T _{opr.}	- 20 ~ + 90	
Storage temp.	T _{stg.}	- 30 ~ + 100	
Soldering temp. ¹⁾	T _{sol.}	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}			0.4		V
Short circuit current	I _{sc}	E _v =1,000lx ²⁾	81	170		μA
Dark current	I _d	V _R =5V			10	μA
Curve factor	C.F.		0.55			-
Capacitance	C _t	V=0V, f=1MHz		1,050		pF
Temperature coefficient of V _{oc}	t			- 2.2		mV/
Temperature coefficient of I _{sc}	t			0.18		%/
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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