

The HP - 202 is a high - output, high - speed silicon photodiode, mounted in durable hermetically sealed TO - 5 metal can package, which provides years of reliable performance even under demanding conditions such as use outdoors.

FEATURES

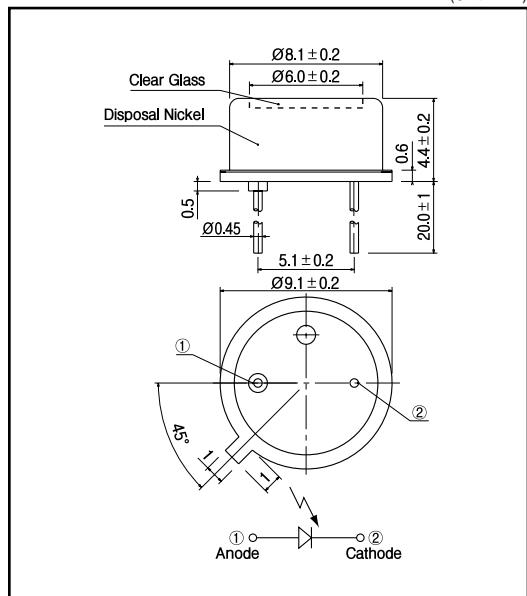
- High - output power
- High - speed response
- Durable
- High reliability in demanding environments

APPLICATIONS

- Optical detectors
- Optical switches
- Smoke detectors

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	10	V
Operating temp.	Topr.	- 25 ~ +100	
Storage temp.	Tstg.	- 30 ~ +100	
Soldering temp. ^{*1}	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 _{oc}			0.3		V
Short circuit current	I _{sc}	E _v =1,000lx ^{*2}		65		µA
Dark current	I _d	V _R =10V			0.1	µA
Curve factor	C.F.		0.55			-
Capacitance	C _t	V=0V, f=1MHz		155		pF
Temperature coefficient of V _{oc}	t			- 2.2		mV/°C
Temperature coefficient of I _{sc}	t			0.18		%/°C
Spectral sensitivity			450~1,050			nm
Peak wavelength	λ			900		nm
Half angle				± 55		deg.

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

Photo diodes

HP - 202

