

HP - 202

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

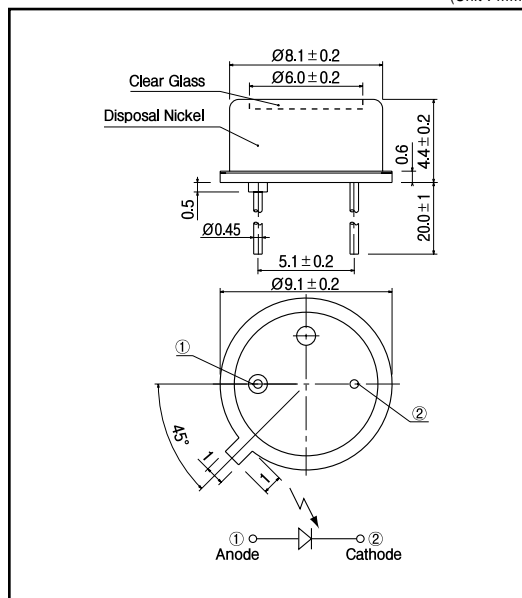
- High - output power
- High - speed response
- Durable
- High reliability in demanding environments

APPLICATIONS

- Optical detectors
- Optical switches
- Smoke detectors

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	10	V
Operating temp.	$T_{opr.}$	- 25 ~ + 100	
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)

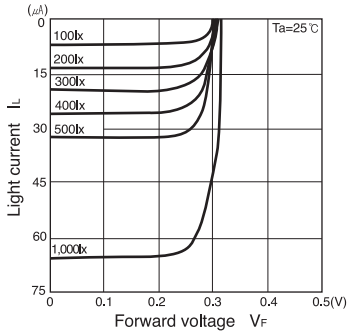
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V_{oc}	$E_v = 1,000lx^{-2}$		0.3		V
Short circuit current	I_{sc}			65		μA
Dark current	I_d	$V_R = 10V$			0.1	μA
Curve factor	C.F.		0.55			-
Capacitance	C_t	$V = 0V, f = 1MHz$		155		pF
Temperature coefficient of V_{oc}	t			- 2.2		mV/
Temperature coefficient of I_{sc}	t			0.18		%/
Spectral sensitivity				450 ~ 1,050		nm
Peak wavelength	ρ			900		nm
Half angle				± 55		deg.

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

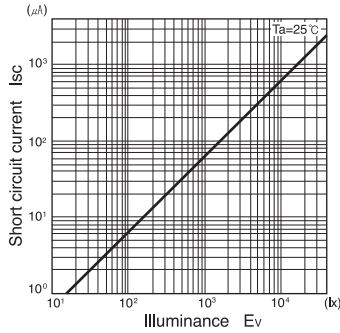
Photo diodes

HP - 202

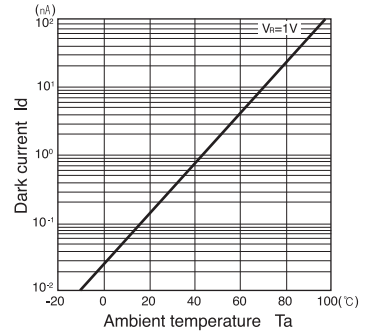
Light current Vs. Forward voltage



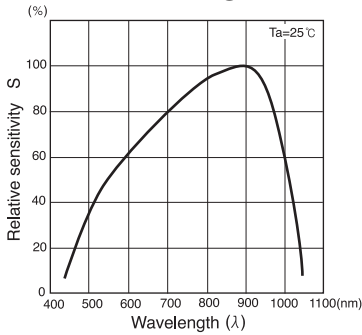
Short circuit current Vs. Illuminance



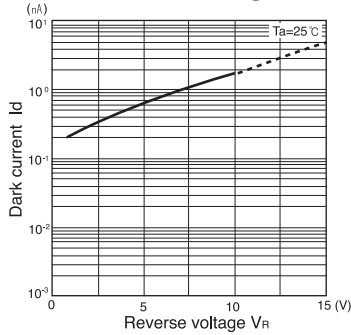
Dark current Vs. Ambient temperature



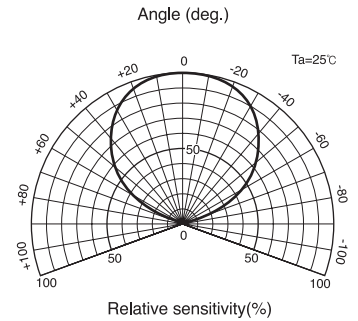
Relative sensitivity Vs. Wavelength



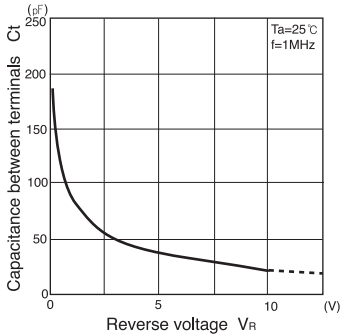
Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage



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