

捷多邦，专业PCB打样工厂，24小时加

急出货

Photo diodes

KODENSHI

HP - 304

The HP - 304 is a high - output, high - speed silicon photodiode mounted in a clear side - viewing package.

FEATURES

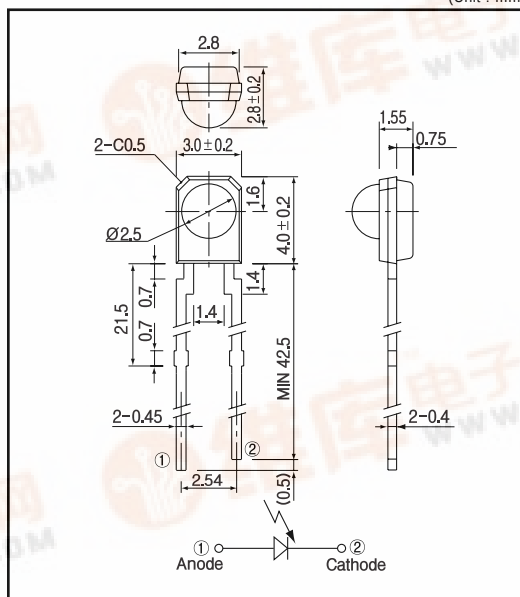
- Visible ray cut off mold type
- Long leads

APPLICATIONS

- Optical Switches

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	20	V
Operating temp.	$T_{opr.}$	- 20 + 70	
Storage temp.	$T_{stg.}$	- 30 + 80	
Soldering temp. ¹	$T_{sol.}$	240	

*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}	$E_v = 1,000lx^{-2}$		0.4		V
Short circuit current	I_{sc}	$E_v = 1,000lx^{-2}$		9.0		μA
Curve factor	C.F.			—		—
Dark current	I_d	$V_R = 5V$			0.5	μA
Capacitance	C_t	$V = 0V, f = 1MHz$		7		pF
Temperature coefficient of V_{oc}	α_t			—		mV/
Temperature coefficient of I_{sc}	β_t			—		%/
Spectral sensitivity	λ			450 1050		nm
Peak wavelength	λ_p			900		nm
Half angle	$\Delta \theta$			± 40		deg.

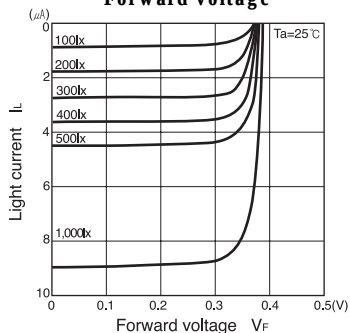
*2. Color temp. = 2856K standard Tungsten lamp



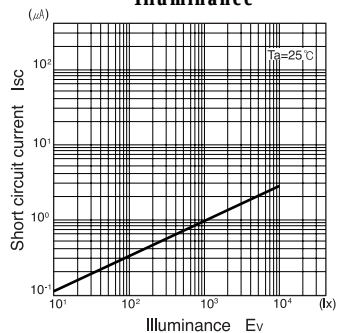
Photo diodes

HP - 304

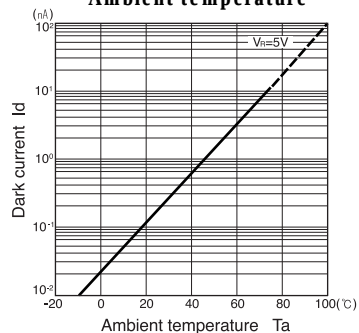
**Light current Vs.
Forward voltage**



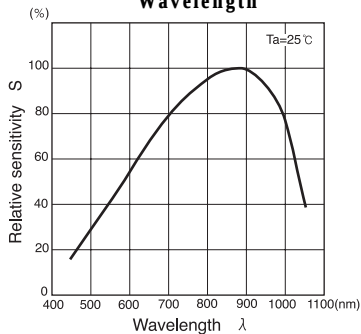
**Short circuit current Vs.
Illuminance**



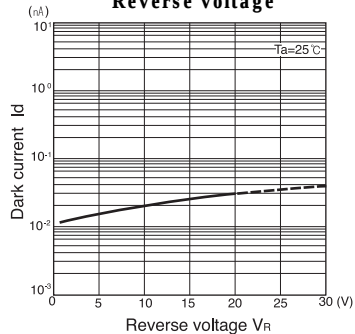
**Dark current Vs.
Ambient temperature**



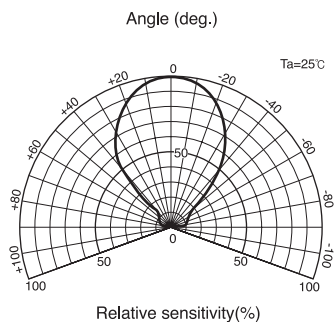
**Relative sensitivity Vs.
Wavelength**



**Dark current Vs.
Reverse voltage**



Radiant Pattern



**Capacitance between terminals Vs.
Reverse voltage**

