

# HPI - 304R4L

The HPI - 304R4L is a high - output, high - speed silicon photodiode mounted in a side - viewing plastic package with visible light cut - off filter. This photodiode is both compact and easy to mount.

### FEATURES

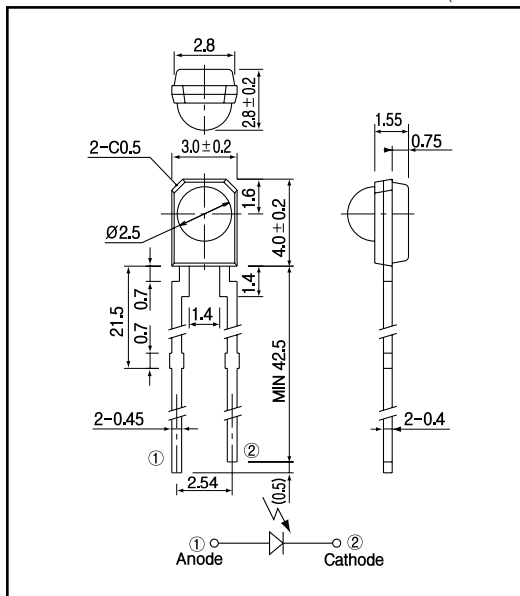
- Visible ray widely cut off mold type
- High output power
- High speed response
- Long leads type 42.5mm( Min. )

### APPLICATIONS

- Optical switches

### DIMENSIONS

(Unit : mm)



### MAXIMUM RATINGS

(Ta=25 )

Item	Symbol	Rating	Unit
Reverse voltage	$V_R$	40	V
Power dissipation	$P_o$	-	mW
Operating temp.	$T_{opr.}$	- 30 + 70	
Storage temp.	$T_{stg.}$	- 40 + 80	
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 )

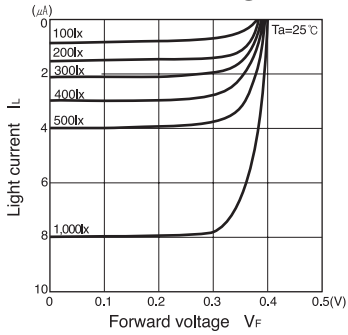
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Short circuit current	$I_{sc}$	$E_v = 1000 \lambda^{-2}$	5			$\mu A$
Dark current	$I_d$	$V_R = 10V$			20	nA
Capacitance	$C_t$	$V = 10V, f = 1MHz$		6		pF
Spectral sensitivity				860 1100		nm
Peak wavelength	$\lambda_p$			960		nm
Half angle				$\pm 45$		deg.

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

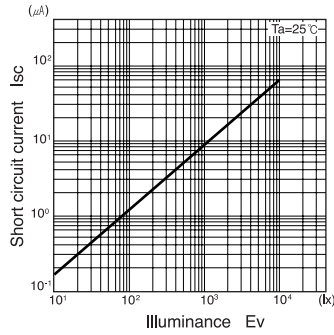
**PIN Photodiode**

**HPI - 304R4L**

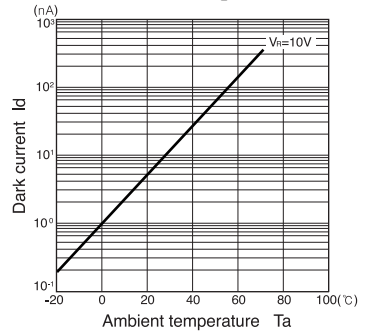
**Light current Vs. Forward voltage**



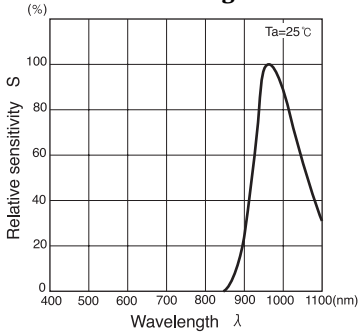
**Short circuit current I\_sc Vs. Illuminance**



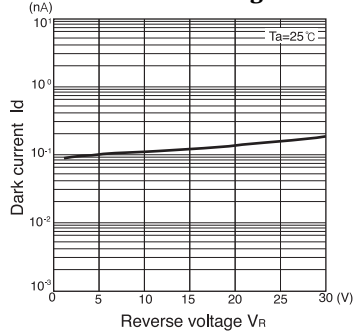
**Dark current I\_d Vs. Ambient temperature Ta**



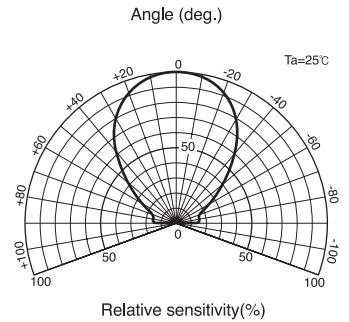
**Relative sensitivity S Vs. Wavelength**



**Dark current I\_d Vs. Reverse voltage V\_R**



**Radiant Pattern**



**Capacitance between terminals C\_t Vs. Reverse voltage V\_R**

