

# HPI - 3663

HPI - 3663 is silicon PIN photodiodes for detecting laser beam. HPI - 3663 has active areas for tracking on both sides of four segmented photodiodes.

### FEATURES

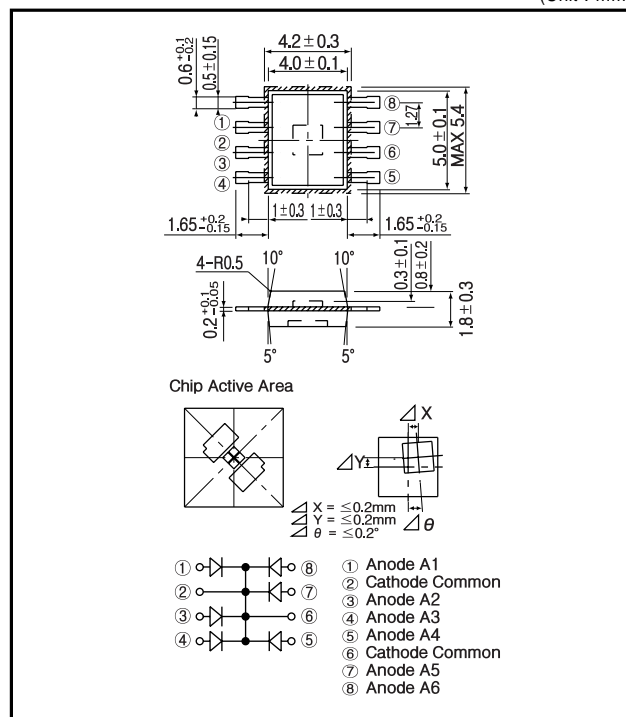
- Six segmented photodiodes
- Active area rotated at 45 deg.
- High speed response

### APPLICATIONS

- Optical pick up

### DIMENSIONS

(Unit : mm)



### MAXIMUM RATINGS

(Ta=25 )

Item	Symbol	Rating	Unit
Reverse voltage	$V_R$	30	V
Power dissipation	$P_D$	30	mW
Operating temp.	Topr.	- 25 ~ + 85	
Storage temp.	Tstg.	- 40 ~ + 100	

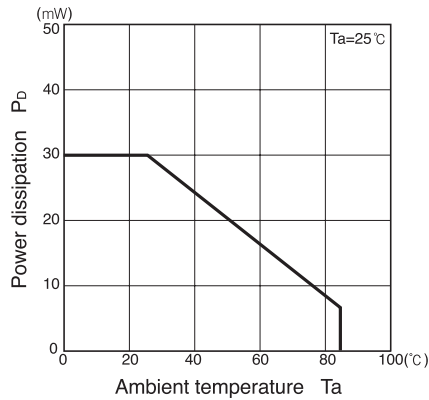
### ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25 )

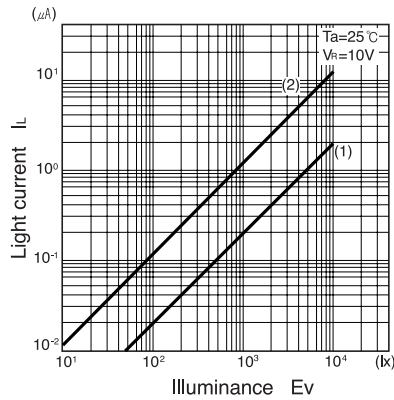
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Light current	$I_L$	$V_R = 10V, E_v = 1,000lx^1$	$\{2\}0.1$	$\{2\}0.2$		$\mu A$
Sensitivity	S	$V_R = 10V$	0.4	0.5		A/W
Dark current	$I_d$	$V_R = 10V$		$\{2\}0.02$	$\{2\}0.05$	nA
Capacitance	Ct	$V_R = 10V, f = 1MHz$		$\{2\}3$		pF
Spectral sensitivity				450 ~ 1,050		nm
Peak wavelength	$\rho$			900		nm
Half angle				$\pm 65$		deg.

\*1. Color temp. = 2856K standard Tungsten lamp

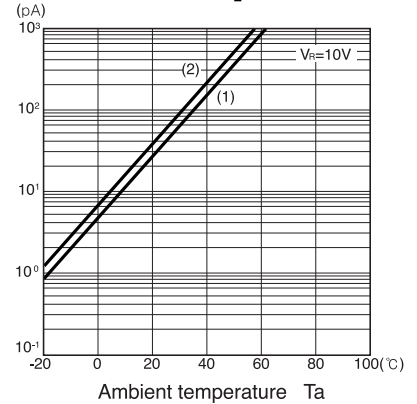
**Power dissipation Vs. Ambient temperature**



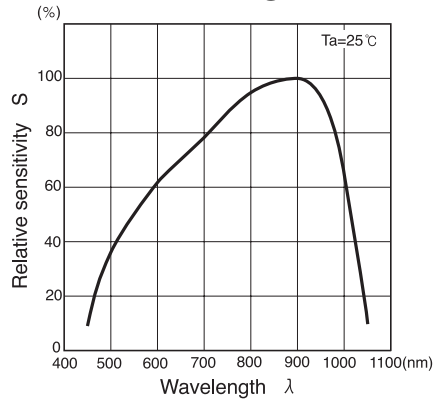
**Light current Vs. Illuminance**



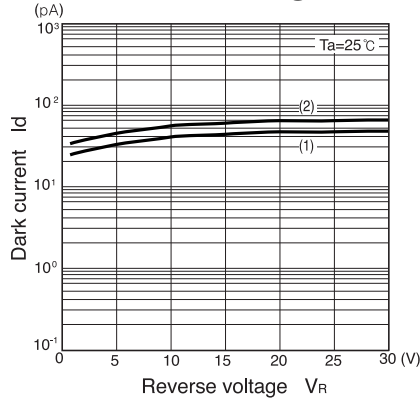
**Dark current Vs. Ambient temperature**



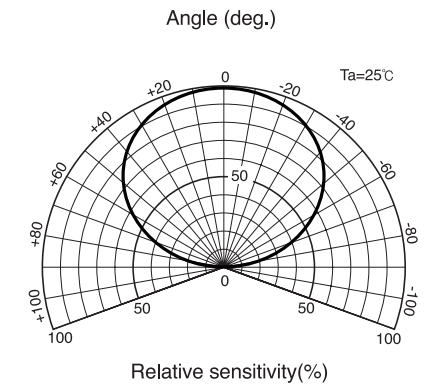
**Relative sensitivity Vs. Wavelength**



**Dark current Vs. Reverse voltage**



**Radiant Pattern**



**Capacitance between terminals Vs. Reverse voltage**

