PNA3W01L (PN307)

Silicon planar type

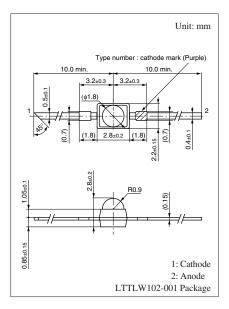
For optical control systems

Features

- High sensitivity, high reliability
- Peak emission wavelength matched with infrared light emitting diodes: $\lambda_p = 800 \text{ nm} (typ.)$
- Double end type small size package

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit	
Reverse voltage	VR	30	V	
Power dissipation	P _D	10	mW	
Operating ambient temperature	T _{opr}	-25 to +85	°C	
Storage temperature	T _{stg}	-30 to +100	°C	



Electrical-Optical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

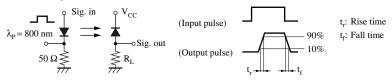
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Dark current	ID	$V_R = 10 V$			50	nA
Photocurrent *1	IL	$V_R = 10 V, L = 1000 lx$	5			μΑ
Peak emission wavelength	λ _p	V _R = 10 V		800		nm
Rise time *2	t _r	$V_R = 10 \text{ V}, R_L = 1 \text{ k}\Omega$		50		ns
Fall time *2	t _f			50		ns
Rise time *2	t _r	$V_R = 10 \text{ V}, R_L = 100 \text{ k}\Omega$		5		μs
Fall time *2	t _f			5		μs
Half-power angle	θ	The angle from which photocurrent		24		0
		becomes 50%				

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Spectral sensitivity characteristics: Sensitivity for wave length over 400 nm maximum sensitivity ratio is 100%.

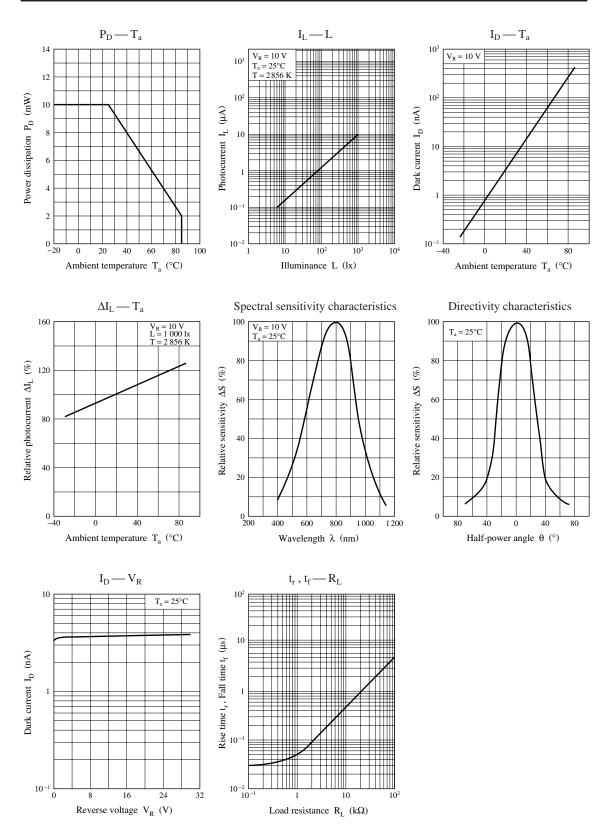
- 3. This device is designed be disregarded radiation.
- 4. *1: Source: Tungsten (color temperature 2856 K)

*2: Switching time measurement circuit



Note) The part number in the parenthesis shows conventional part number.

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