PNZ334 (PN334)

Silicon planar type

For optical control systems

Features

- Plastic type package (φ5)
- High coupling capabillity suitable for plastic fiber
- High quantum efficiency
- High-speed response

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

Parameter	Symbol	Rating	Unit	
Reverse voltage	V _R	30	V	
Power dissipation	P _D	100	mW	
Operating ambient temperature	T _{opr}	-25 to +85	°C	illor,
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
Photocurrent *1	IL	$V_{\rm R} = 10$ V, L = 1000 lx	5.0	7.0	in of the	μΑ
Drain current	I _D	$V_{\rm R} = 10 V$	0	0.1	10	nA
Terminal capacitance	Ct	$V_{\rm R} = 0$ V, f = 1 MHz		6	o.C.	pF
Peak sensitivity wavelength	λ_{PD}	$V_{\rm R} = 10 {\rm V}$	Q . Q	850	2/2	nm
Half-power angle	θ	The angle when the photocurrent is halved	S S S	70		o
Rise time *2	tr C		6	2		ns
Fall time *2	t _f	$V_{\rm R} = 10 \text{ V}, \text{ R}_{\rm L} = 50 \Omega$	2°.	2		ns

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 by disregarding radiation.
- 4. *1:Source: Tungsten lamp (color temperature 2 856K) *2: Switching time measurement circuit

$$\lambda_{p} = 900 \text{ nm}$$

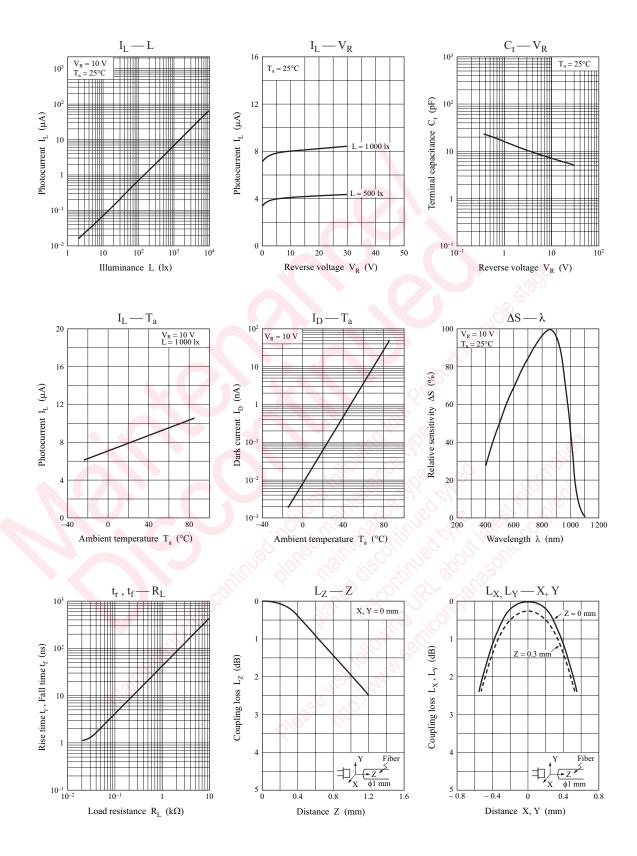
$$\lambda_{p} = 900 \text{ nm}$$

$$\delta_{p} =$$

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

PNZ334

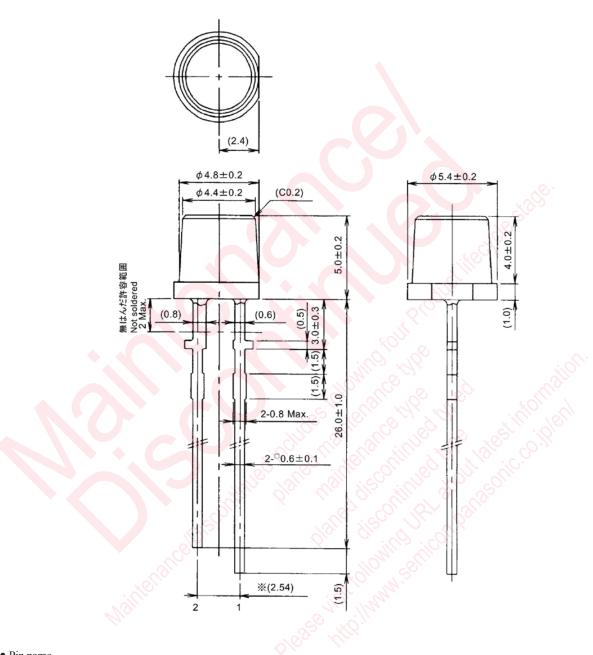
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Package (Unit: mm)

LPTFTN2S0001



• Pin name

1: Anode

2: Cathode

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