

PNZ335 (PN335)

Silicon planar type

For optical control systems

■ Features

- Flat side-view type package
- High coupling capability suitable for plastic fiber
- High quantum efficiency
- High-speed response

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Power dissipation	P_D	100	mW
Operating ambient temperature	T_{opr}	-25 to +85	$^\circ\text{C}$
Storage temperature	T_{stg}	-30 to +100	$^\circ\text{C}$

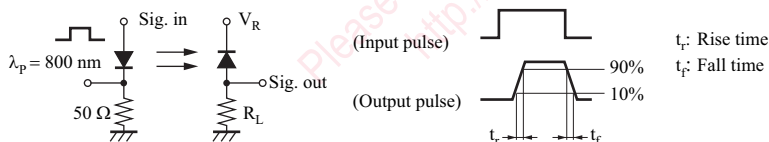
■ Electrical-Optical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Photocurrent *1	I_L	$V_R = 10\text{ V}, L = 1000\text{ lx}$	5.0	8.0		μA
Drain current	I_D	$V_R = 10\text{ V}$		0.1	10	nA
Terminal capacitance	C_t	$V_R = 10\text{ V}, f = 1\text{ MHz}$		6		pF
Peak sensitivity wavelength	λ_{PD}	$V_R = 10\text{ V}$		850		nm
Half-power angle	θ	The angle when the photocurrent is halved		70		$^\circ$
Rise time *2	t_r	$V_R = 10\text{ V}, R_L = 50\ \Omega$		2		ns
Fall time *2	t_f			2		ns

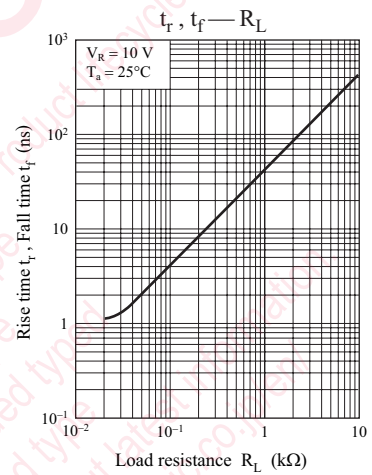
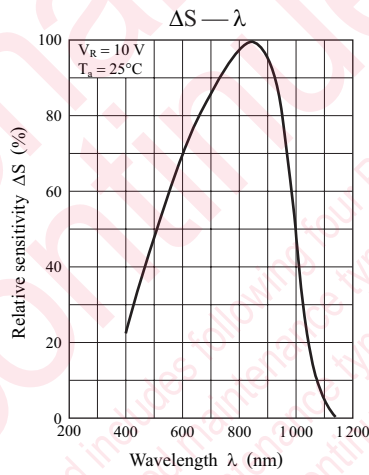
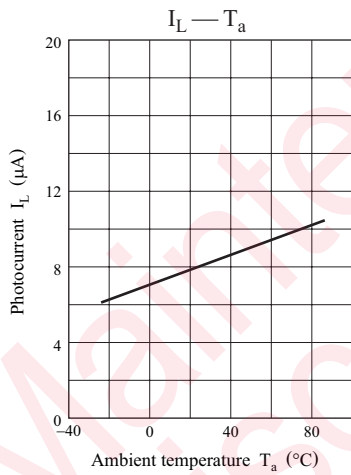
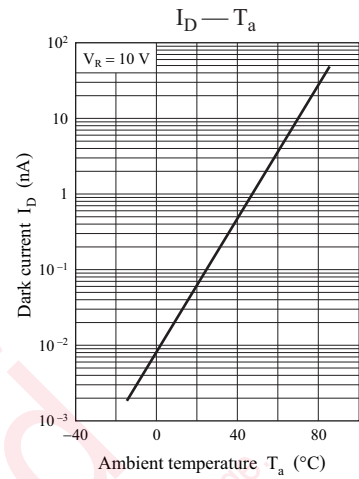
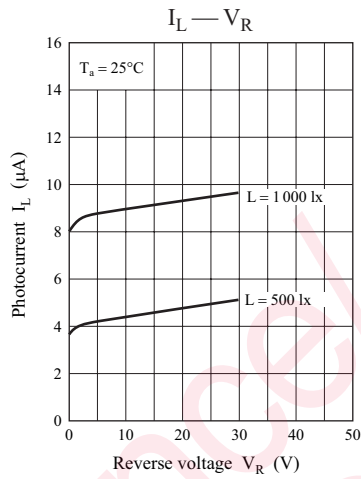
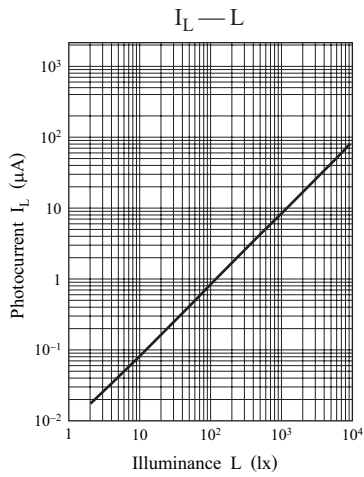
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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)

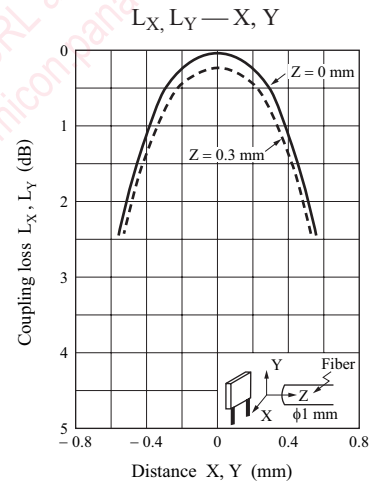
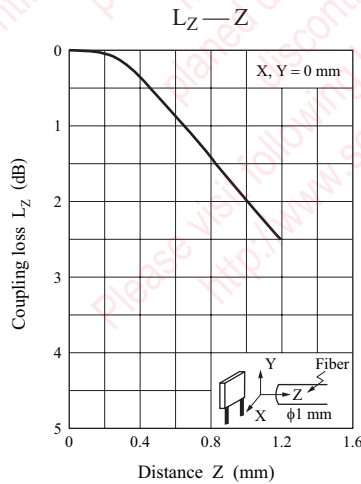
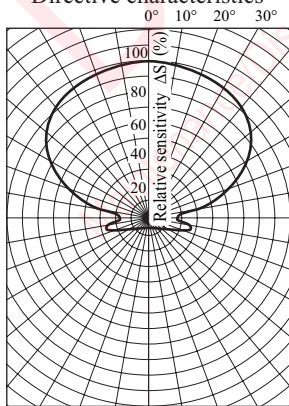
*2: Switching time measurement circuit



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

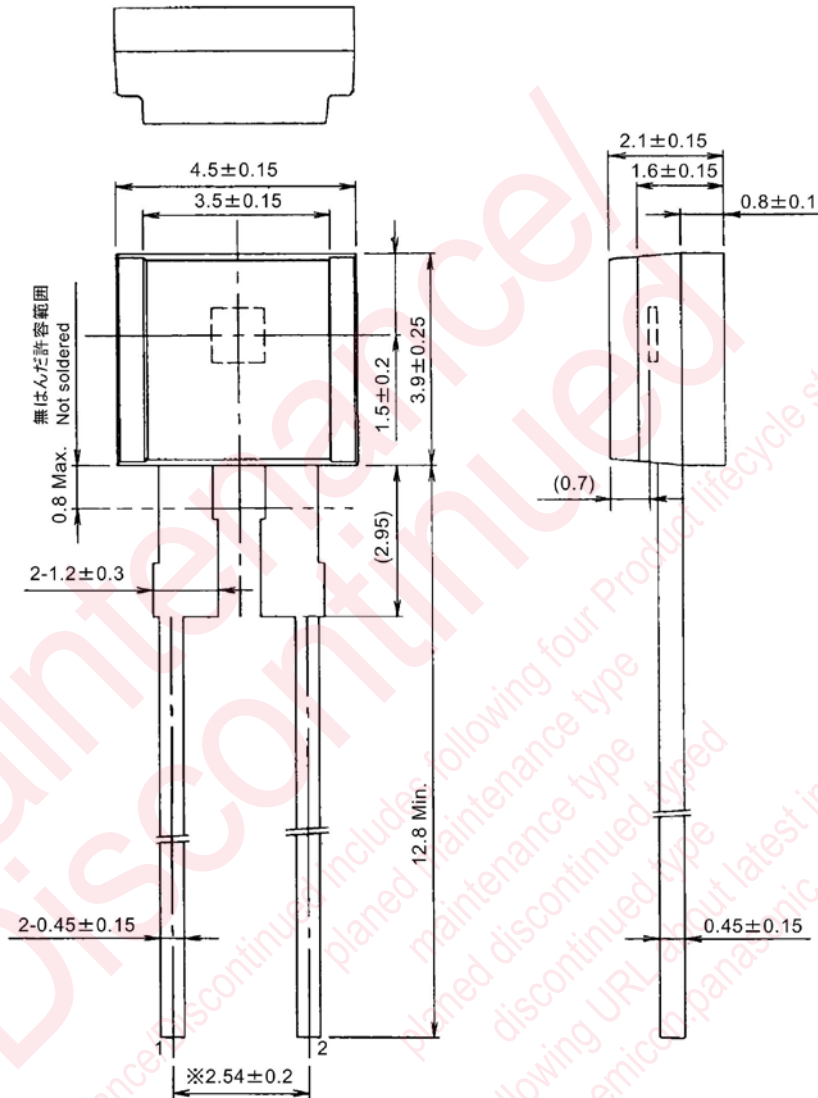


Directive characteristics



■ Package (Unit: mm)

LPTFSN2S0001



- Pin name
- 1: Anode
- 2: Cathode

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