imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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PNZ155 (PN155)

Silicon planar type

For optical control systems

Features

- High sensitivity
- Wide spectral sensitivity characteristics, suited for detecting GaAs LEDs
- Low collector-emitter cutoff current (base open)
- Flat type plastic package

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

Parameter	Symbol	Rating	Unit
Collector-emitter voltage (Base open)	V _{CEO}	20	V
Emitter-collector voltage (Base open)	V _{ECO}	5	V
Collector current	I _C	10	mA
Collector power dissipation	P _C	100	mW
Operating ambient temperature	T _{opr}	-25 to +85	°C
Storage temperature	T _{stg}	-30 to +100	°C

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

	a					
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Photocurrent *1	I_L	$V_{\rm CE} = 10$ V, L = 100 lx	0.05	0.2	<i>S</i> /	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 10 V$	K BY	0.01	1.0	μΑ
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_L = 1 \text{ mA}, L = 1000 \text{ lx}$	نى ئى	0.2	0.5	V
Peak emission wavelength	$\lambda_{ m P}$	$V_{CE} = 10 V$	No.	800		nm
Half-power angle	θ	The angle when the photocurrent is halved		70		0
Rise time *2	t _r	$V_{\rm c} = 10 V_{\rm c} I_{\rm c} = 1 m A_{\rm c} R_{\rm c} = 100 Q_{\rm c}$		4		μs
Fall time *2	t _f	$V_{CC} = 10 \text{ V}, \text{ I}_{L} = 1 \text{ mA}, \text{ R}_{L} = 100 \Omega$		4		μs

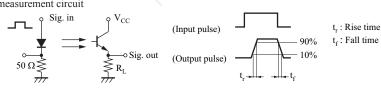
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

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 2856K)

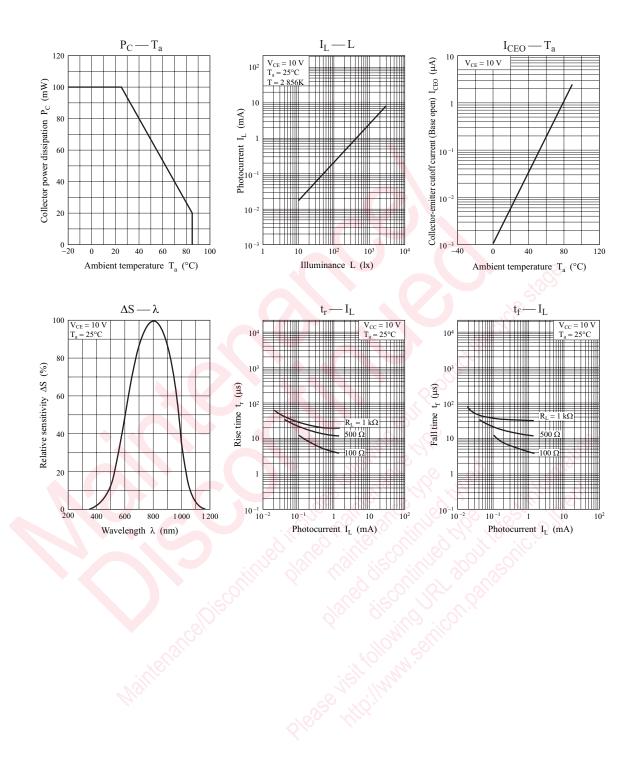
*2: Switching time measurement circuit



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

PNZ155

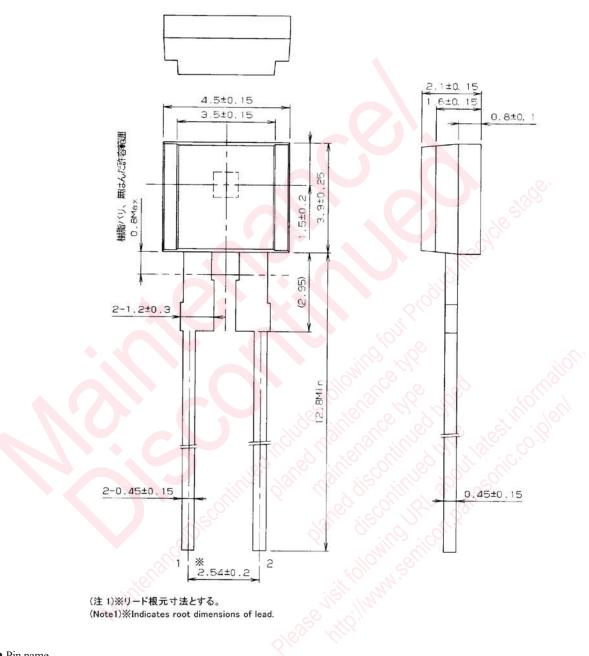
Panasonic



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Package (Unit: mm)

LPTFSN2S0001



• Pin name

1: Emitter

2: Collector

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