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

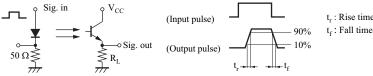
■ Absolute Maximum Ratings $T_a = 25$ °C

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 $T_a = 25$ °C±3°C

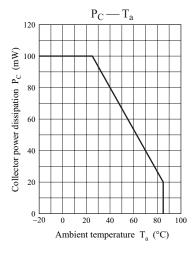
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Photocurrent *1	I_{L}	$V_{CE} = 10 \text{ V}, L = 100 \text{ lx}$	0.05	0.2	3/	μΑ
Collector-emitter cutoff current (Base open)	I_{CEO}	$V_{CE} = 10 \text{ V}$	11/00	0.01	1.0	μΑ
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_L = 1 \text{ mA}, L = 1000 \text{ lx}$	50, 50	0.2	0.5	V
Peak emission wavelength	$\lambda_{ m P}$	$V_{CE} = 10 \text{ V}$	2/0-	800		nm
Half-power angle	θ	The angle when the photocurrent is halved	9	70		0
Rise time *2	t _r	$V_{CC} = 10 \text{ V}, I_L = 1 \text{ mA}, R_L = 100 \Omega$		4		μs
Fall time *2	t_{f}	V _{CC} - 10 V, I _L - 1 IIIA, K _L - 100 Ω		4		μs

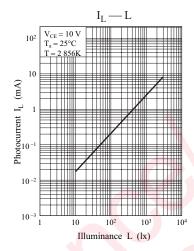
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.
 - 2. Spectral sensitivity characteristics: Sensitivity for wave length over 400 nm maximum sensitivity ratio is 100%.
 - 3. This device is designed by disregarding radiation.
 - 4. *1: Source: Tungsten lamp (color temperature $2\,856K$)
 - *2: Switching time measurement circuit

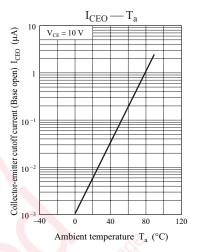


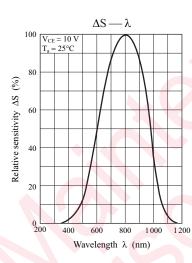
Note) The part number in the parenthesis shows conventional part number.

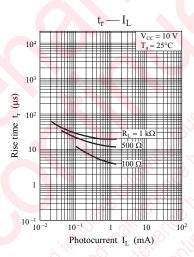
PNZ155 Panasonic

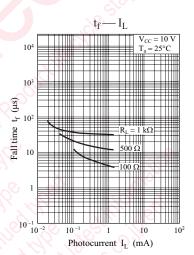










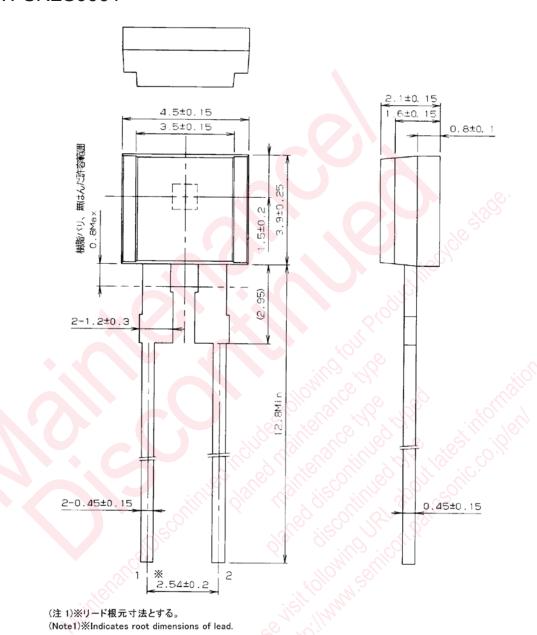


2 SHE00021DED

Panasonic PNZ155

■ Package (Unit: mm)

LPTFSN2S0001



- Pin name
 - 1: Emitter
 - 2: Collector

SHE00021DED 3

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