PAZ107

Panasonic

Glass len

2-00.45±0.05

2.54±0.25

4.6±0.15

Unit: mm

1: Emitter

2: Collector

Unit: mm

1: Emitter 2: Base

3: Collector

MTGLR103-001 Package

65.75 max

MTGLR102-001 Package

PNZ107 (PN107), PNZ108 (PN108)

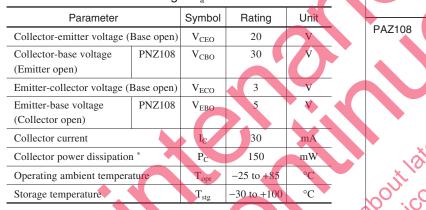
Silicon planar type

For optical control systems

Features

- High sensitivity: $I_{CE(L)} = 5 \text{ mA (min.)}$
- Narrow directivity characteristics for effective use of light input
- Fast response: $t_r = 5 \ \mu s \ (typ.)$
- Signal mixing capability using base pin (PNZ108)
- TO-18 standard type package

■ Absolute Maximum Ratings T_a = 25°C



Note) *: The rate of electric power reduction is 1.5 mW/°C above $T_a = 25^{\circ}C$

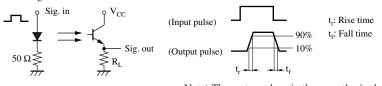
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Photocurrent *1	I _{CE(L)}	$V_{CE} = 10 V L = 100 x$	5.0		15.0	mA
Dark current	I _{CEO}	$V_{CE} = 10V$		0.05	2.00	μΑ
Peak emission wavelength	$\lambda_{ m p}$			900		nm
Half-power angle	θ	The angle from which photocurrent		10		0
	N	becomes 50%				
Rise time *2	(t _r	$V_{CC} = 10 \text{ V}, \text{ I}_{CE(L)} = 5 \text{ mA}, \text{ R}_{L} = 100 \Omega$		5		μs
Fall time *2	t _f	X *`		6		μs
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{CE(L)} = 1 \text{ mA}, L = 500 \text{ lx}$		0.3	0.6	V

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%.

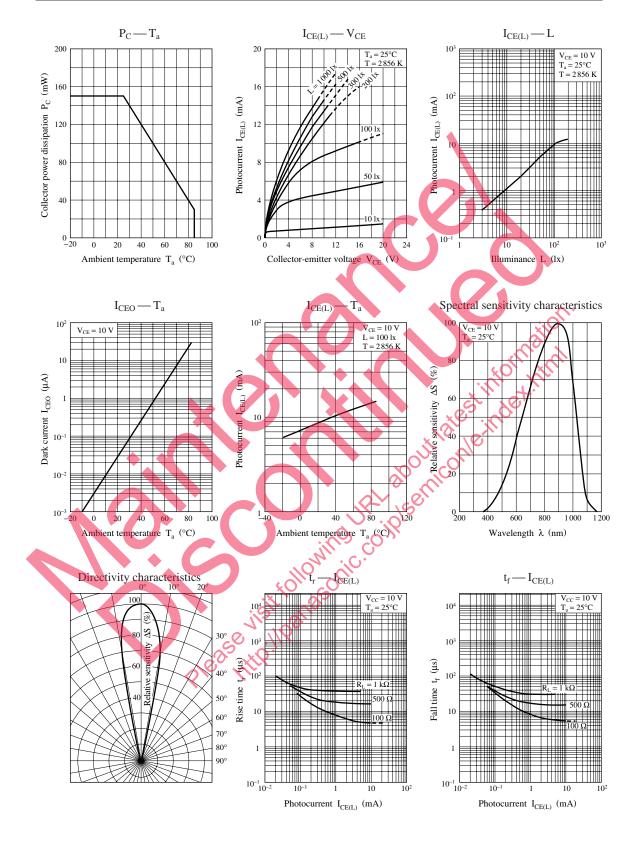
- 3. This device is designed be disregarded radiation.
- 4. *1: Source: Tungsten (color temperature 2856 K)
 - *2: Switching time measurement circuit



Note) The part numbers in the parenthesis show conventional part number.

Panasonic

PNZ107, PNZ108



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