查询PNZ202S供应商 Darlington Phototransistors 捷多邦,专业PCB打样工厂。

24小时加急 2**anasonic**

PNZ202S (PN202S)

Darlington Phototransistor

For optical control systems

Features

- Darlington output, high sensitivity
- Easy to combine with red and infrared light emitting diodes
- Small size (ø 3) ceramic package

Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

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Parameter	Symbol	Ratings	Unit
Collector to emitter voltage	V _{CEO}	20	V
Emitter to collector voltage	V _{ECO}	5	V
Collector current	I _C	30	mA
Collector power dissipation	P _C	100	mW
Operating ambient temperature	T _{opr}	-25 to +80	°C
Storage temperature	T _{stg}	-30 to +100	°C

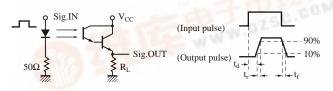
Unit : mm $(0,0) \pm 0.05$ (

Electro-Optical Characteristics (Ta = 25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Dark current	I _{CEO}	$V_{CE} = 10V$		0.1	0.5	μA
Collector photo current	I _{CE(L)} *3	$V_{CE} = 10V, L = 2 lx^{*1}$	0.2		5	mA
Peak sensitivity wavelength	λ_{P}	$V_{CE} = 10V$		800		nm
Acceptance half angle	θ	Measured from the optical axis to the half power point		30	100	deg.
Response time	$t_{\rm r}, t_{\rm f}^{*2}$	$V_{CC} = 10V, I_{CE(L)} = 5mA, R_L = 100\Omega$		150		μs
Collector saturation voltage	V _{CE(sat)}	$I_{CE(L)} = 1mA, L = 100 lx^{*1}$	4	0.7	1.5	V

^{*1} Measurements were made using a tungsten lamp (color temperature T = 2856K) as a light source.

*2 Switching time measurement circuit



t_d: Delay time

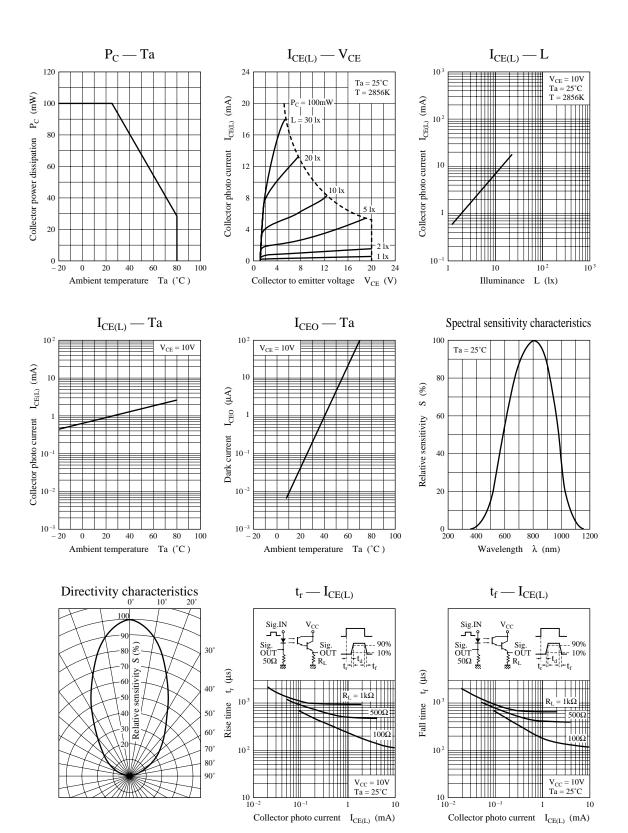
 t_r : Rise time (Time required for the collector photo current to increase from 10% to 90% of its final value)

 $t_{\rm f}\colon$ Fall time (Time required for the collector photo current to decrease from 90% to 10% of its initial value)

³ I _{CE(L)} Classification	ns		
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Icent, (mA)	0.2 to 0.8	0.6 to 1.65	1.35 to 5
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Note) The part number in the parenthesis shows conventional part number.

PNZ202S



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