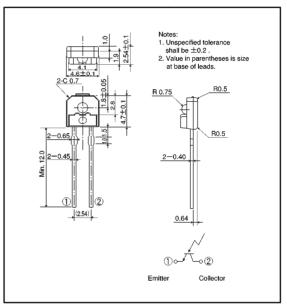
Phototransistor, side view type RPM-22PB

The RPM-22PB is a silicon phototransistor in a side-facing package. High sensitivity with ϕ 1.5 lens.

Applications
Optical control equipment
Receiver for sensors

Features

- 1) High sensitivity.
- Molded in plastic with a visible light filter. (filter out light 750 nm or less)
- 3) Side-facing detector.



• Absolute maximum ratings (Ta = 25° C)

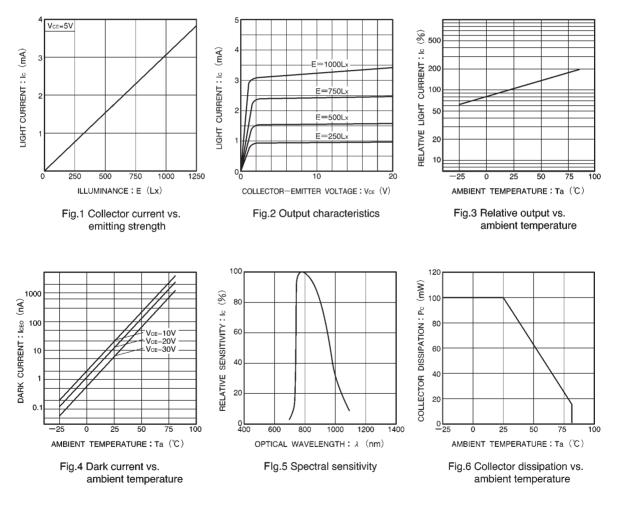
Parameter	Symbol	Limits	Unit
Collector-emitter voltage	VCEO	32	V
Emitter-collector voltage	VECO	5	V
Collector current	lc	30	mA
Collector power dissipation	Pc	100	mW
Operating temperature	Topr	-25~+85	Ĵ
Storage temperature	Tstg	-30~+100	Ĵ

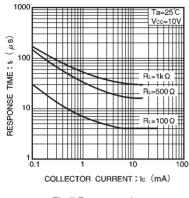
External dimensions (Units: mm)

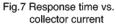
•Electrical and optical characteristics (Ta = 25° C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Light current	lc	0.48	-	1.94	mA	Vce=5V, E=500Lx
Dark current	ICEO	-	-	0.5	μA	Vce=10V(Black box)
Peak sensitivity wavelength	λp	_	800	_	nm	—
Collector-emitter saturation voltage	VCE(sat)	_	-	0.4	V	Ic=0.1mA, E=500Lx
Half-angle	θ 1/2	_	±32	_	deg	—
Response time	tr∙tf	_	10	_	μs	Vce=5V, Ic=1mA, RL=100Ω

Electrical and optical characteristic curves







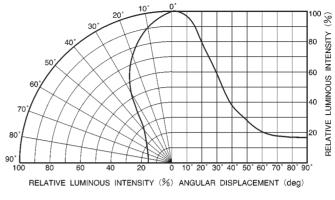


Fig.8 Directional pattern

