Sensors

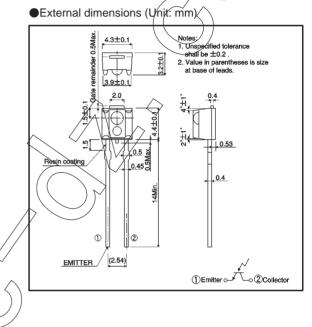
Phototransistor, side view type RPM-20PB

The RPM-20PB is a phototransistor in a side-facing package. High sensitivity with ϕ 1.85 lens.

Applications
Optical control equipment
Receiver for sensors

Features

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



• Absolute maximum ratings (Ta = 25° C)

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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	Ĉ
Storage temperature	Tstg	-30~+100	Ĵ



Electrical and optical characteristics (Ta = 25° C) Parameter Symbol Min. Max. Unit Conditions Typ. Light current VCE=5V. E=500Lx lc 0.5 _____ mA _____ Dark current VCE=10V(Black box) ICEO _ 0.5 μA _ Peak sensitivity wavelength λP 800 _ nm Collector-emitter saturation voltage 0.4 ٧ Ic=0.1mA, E=500Lx VCE(sat) _ _ Half-angle ±14 $\theta_{1/2}$ _ deg $V_{CE}=5V$, $I_{C}=1$ mA, $R_{L}=100 \Omega$ Response time tr • tf 10 μs _ _

Electrical and optical characteristic curves

