# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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### Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Phototransistor, side view type RPM-20PB

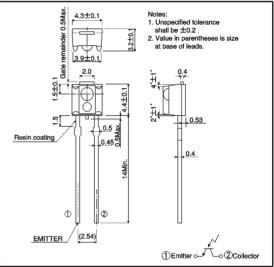
The RPM-20PB is a phototransistor in a side-facing package. High sensitivity with  $\phi$ 1.85 lens.

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.

### •External dimensions (Unit: mm)



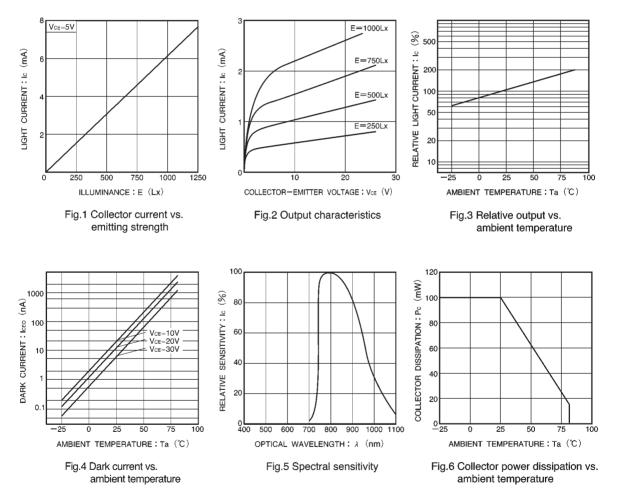
#### •Absolute maximum ratings (Ta = $25^{\circ}$ C)

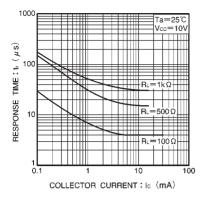
Parameter	Symbol	Limits	Unit
Collector-emitter voltage	Vceo	32	V
Emitter-collector voltage	VECO	5	V
Collector current	lc	30	mA
Collector power dissipation	Pc	100	mW
Operating temperature	Topr	-25~+85	Ĉ
Storage temperature	Tstg	-30~+100	Ĵ

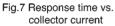
•Electrical and optical characteristics (Ta =  $25^{\circ}$ C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Light current	lc	0.5	-	-	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	<b>θ</b> 1/2	—	±14	-	deg	_
Response time	tr∙tf	—	10	—	μs	$V_{CE}=5V$ , $I_C=1mA$ , $R_L=100 \Omega$

Electrical and optical characteristic curves







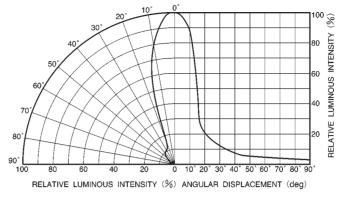


Fig.8 Directional pattern



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