

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

Notes: 1. Unspecified tolerance shall be ±0.2. 2. Value in parentheses is size at base of leads. R 0.75 <u>2-0.65</u> <u>1. Unspecified tolerance</u> shall be ±0.2. 2. Value in parentheses is size at base of leads. R 0.75 <u>2-0.45</u> <u>0.64</u> <u>0.64</u>

•Dimensions (Units : mm)

•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	°C
Storage temperature	Tstg	-30~+100	°C

•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	μΑ	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	θ1/2	-	±32	-	deg	_
Response time	tr•tf	-	10	-	μs	Vce=5V, Ic=1mA, RL=100Ω



Notes
No copying or reproduction of this document, in part or in whole, is permitted without the consent of ROHM Co.,Ltd.
The content specified herein is subject to change for improvement without notice.
The content specified herein is for the purpose of introducing ROHM's products (hereinafter "Products"). If you wish to use any such Product, please be sure to refer to the specifications which can be obtained from ROHM upon request.
Examples of application circuits, circuit constants and any other information contained hereir illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
Great care was taken in ensuring the accuracy of the information specified in this document However, should you incur any damage arising from any inaccuracy or misprint of such information, ROHM shall bear no responsibility for such damage.
The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM and other parties. ROHM shall bear no responsibility whatsoever for any dispute arising from the use of such technical information.
The Products specified in this document are intended to be used with general-use electronic equipment or devices (such as audio visual equipment, office-automation equipment, communication devices, electronic appliances and amusement devices).
The Products specified in this document are not designed to be radiation tolerant.
While ROHM always makes efforts to enhance the quality and reliability of its Products, a Product may fail or malfunction for a variety of reasons.
Please be sure to implement in your equipment using the Products safety measures to guard against the possibility of physical injury, fire or any other damage caused in the event of the failure of any Product, such as derating, redundancy, fire control and fail-safe designs. ROHM shall bear no responsibility whatsoever for your use of any Product outside of the prescribed scope or not in accordance with the instruction manual.
The Products are not designed or manufactured to be used with any equipment, device or system which requires an extremely high level of reliability the failure or malfunction of which may result in a direct threat to human life or create a risk of human injury (such as a medica instrument, transportation equipment, aerospace machinery, nuclear-reactor controller, fuel- controller or other safety device). ROHM shall bear no responsibility in any way for use of any of the Products for the above special purposes. If a Product is intended to be used for any such special purpose, please contact a ROHM sales representative before purchasing.
If you intend to export or ship overseas any Product or technology specified herein that may be controlled under the Foreign Exchange and the Foreign Trade Law, you will be required to obtain a license or permit under the Law.



Thank you for your accessing to ROHM product informations. More detail product informations and catalogs are available, please contact us.

ROHM Customer Support System

http://www.rohm.com/contact/