# Surface Mount Type Photo Diode

RPMD-0132 Datasheet

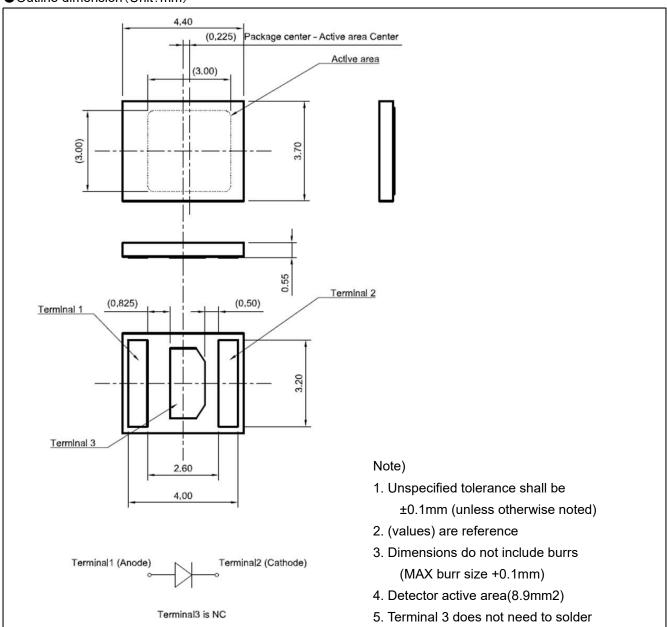
## Applications

- ·Consumer electronics, Industrial electronics
- Wearables
- Other general-purpose applications

#### Features

- •Thickness 0.55mm
- Improved green wavelength sensitivity for the pulse wave sensing
- ·Infrared wavelength is also active sensor area
- · High active area ratio to the package area

### Outline dimension (Unit: mm)



## ● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Values	Unit
Reverse Voltage	Vr	3	V
Operating Temperature	Topr	-25 to +75	°C
Storage Temperature	Tstg	-40 to +85	°C

## ●Electrical and Optical characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Values			Unit
			Min.	Тур.	Max.	Offic
DC Sensitivity	Re	1mW/cm2 DC	0.42	0.57	-	- A/W
		λ=940nm, Vr=1V				
		1mW/cm2 DC	0.30	0.38	-	
		λ=525nm, Vr=1V				
Dark Current	iLk	Vr=1V	-	1	20	nA
Diode Capacitance	Cd	Vr=1V, f=1MHz	-	30	-	pF
Breakdown Voltage	Vbr	Ir=2µA	15	-	-	V

## Electrical and Optical characteristic curves

Fig.1 Reverse Voltage vs. Dark Current

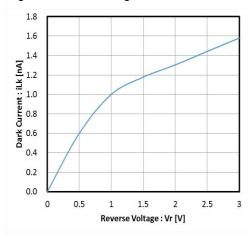


Fig.3 Ambient Temperature vs. Relative Sensitivity

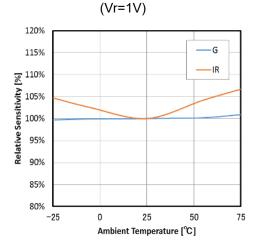


Fig.5 Wavelength vs. Relative Sensitivity

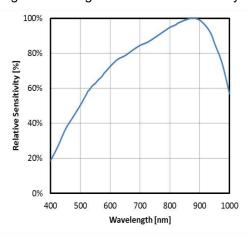


Fig.2 Reverse Voltage vs. Relative Sensitivity

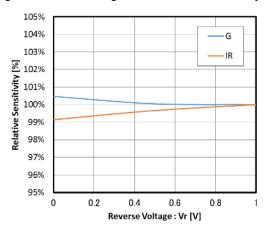


Fig.4 Ambient Temperature vs. Dark Current

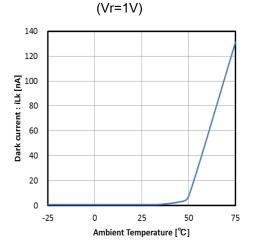
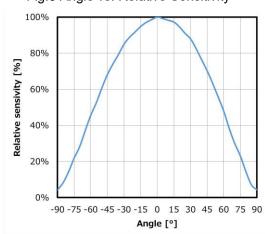


Fig.6 Angle vs. Relative Sensitivity



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