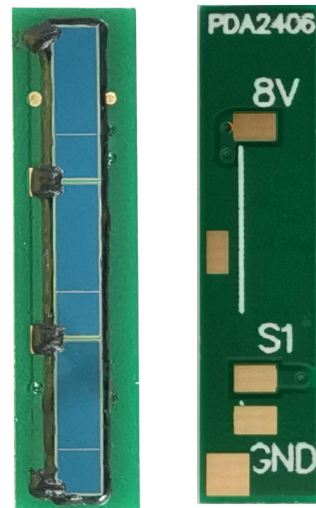


## Technical Data Sheet

### PIN Photodiode Array: PDA6220

#### ■ Features

- . 3 photodiodes
- . Fast response time
- . High photo sensitivity
- . Pb free
- . The product itself will remain within RoHS compliant version.



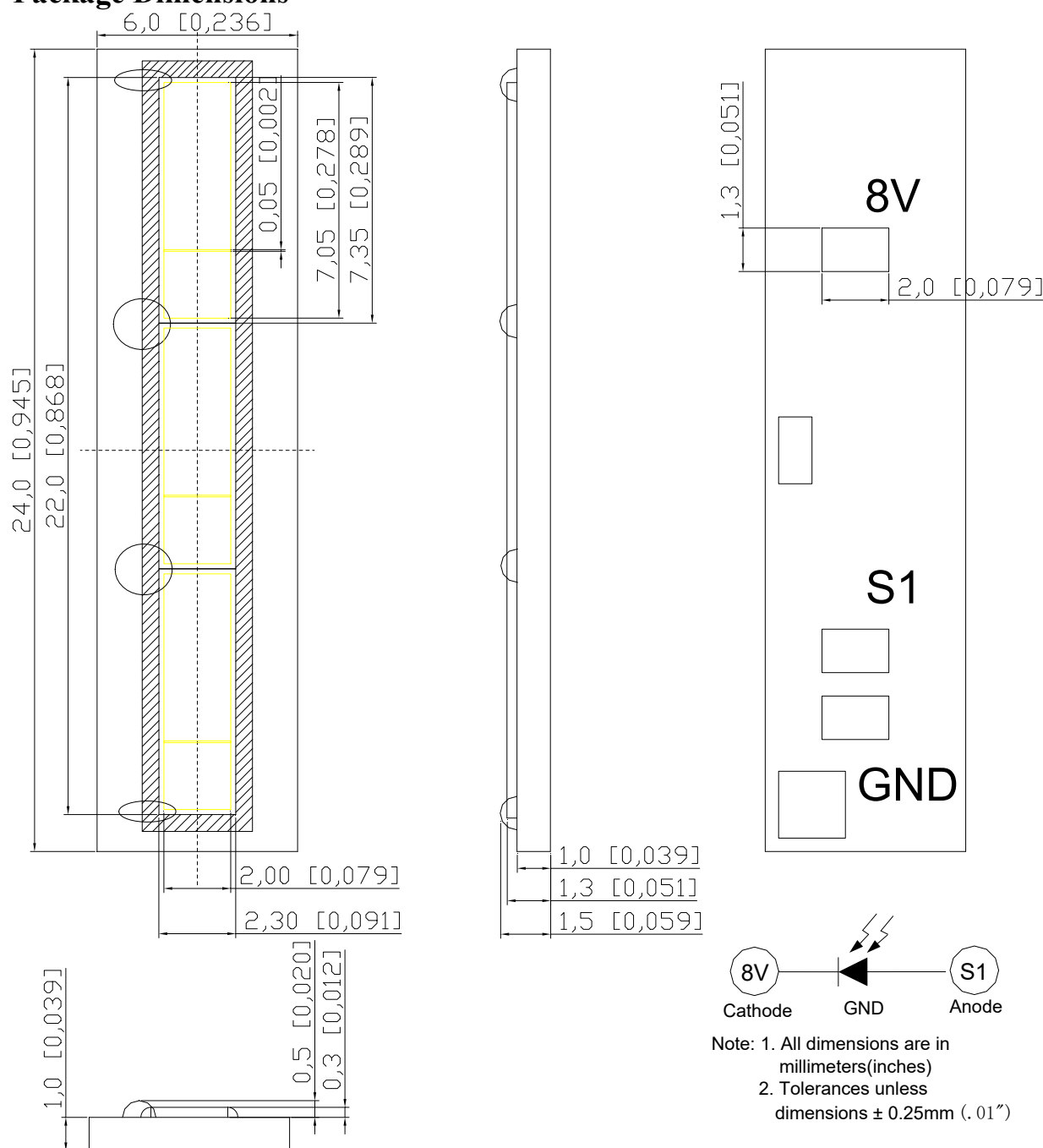
#### ■ Descriptions

PDA6220 (PDA2406) is a high sensitive and high speed silicon photodiodes mounted on PCB. Spliced into a long strip photo diode.

#### ■ Applications

- . Window sensor
- . Microcurrent power supply

## ■ Package Dimensions



## ■ Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units
Reverse Voltage	VR	30	V
Power Dissipation	Pd	150	mW
Lead Soldering Temperature	Tsol	260	°C
Operating Temperature	Topr	-20 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	°C

### ■ Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Range of Spectral Bandwidth	$\lambda_{0.5}$	----	400	----	1100	nm
Wavelength of Peak Sensitivity	$\lambda_p$	----	----	940	----	nm
Open-Circuit Voltage	V <sub>OC</sub>	Note(1)	----	0.39	----	V
Short- Circuit Current	I <sub>SC</sub>	Note(1)	----	480	----	$\mu A$
Reverse Light Current	I <sub>L</sub>	Note(1) V <sub>R</sub> =5V	----	480	----	$\mu A$
Dark Current	I <sub>d</sub>	E <sub>e</sub> =0m W/cm <sup>2</sup> V <sub>R</sub> =10V	----	----	30	nA
Reverse Breakdown Voltage	BV <sub>R</sub>	E <sub>e</sub> =0m W/cm <sup>2</sup> I <sub>R</sub> =100 $\mu A$	60	----	----	V
Total Capacitance	C <sub>t</sub>	E <sub>e</sub> =0m W/cm <sup>2</sup> V <sub>R</sub> =5V f=1MHZ	----	63	----	pF
Rise/Fall Time	t <sub>r</sub> /t <sub>f</sub>	V <sub>R</sub> =10V R <sub>L</sub> =1K $\Omega$		150/150		nS

Note(1): Parallel light of E<sub>e</sub>=5mW/cm<sup>2</sup> illumination is applied by a Tungsten lamp of 2856K

### ■ Typical Electro-Optical Characteristics Curves

Fig.1 Power Dissipation vs.  
Ambient Temperature

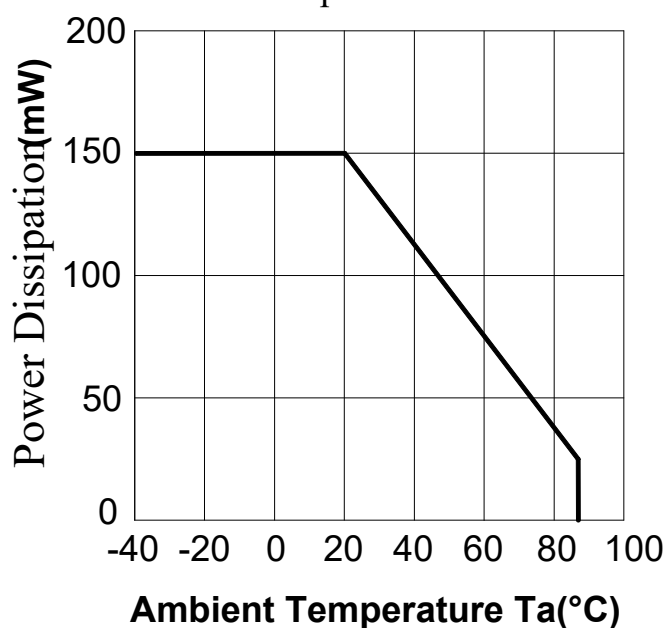


Fig.2 Spectral Sensitivity

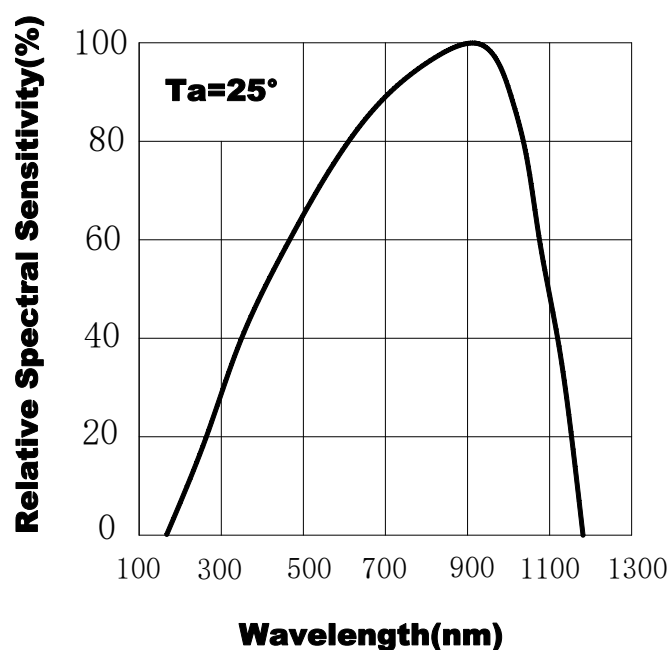


Fig.3 Dark Current vs.  
Ambient Temperature

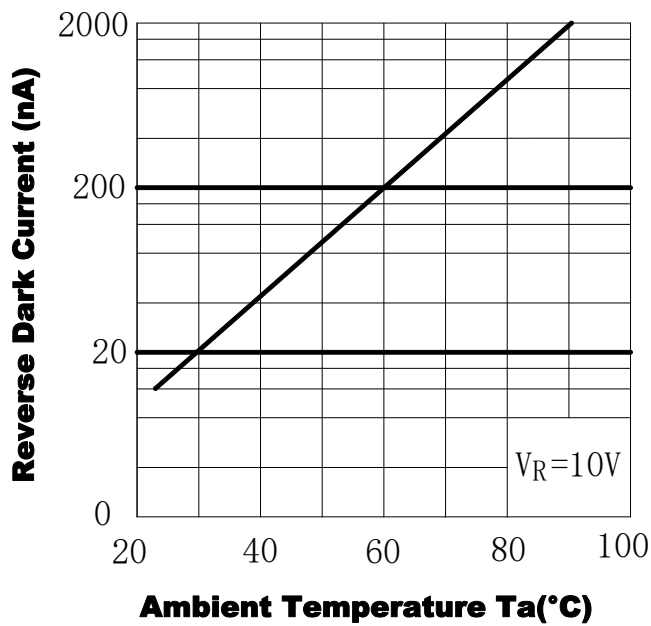


Fig.4 Reverse Light Current vs.  
 $E_e$

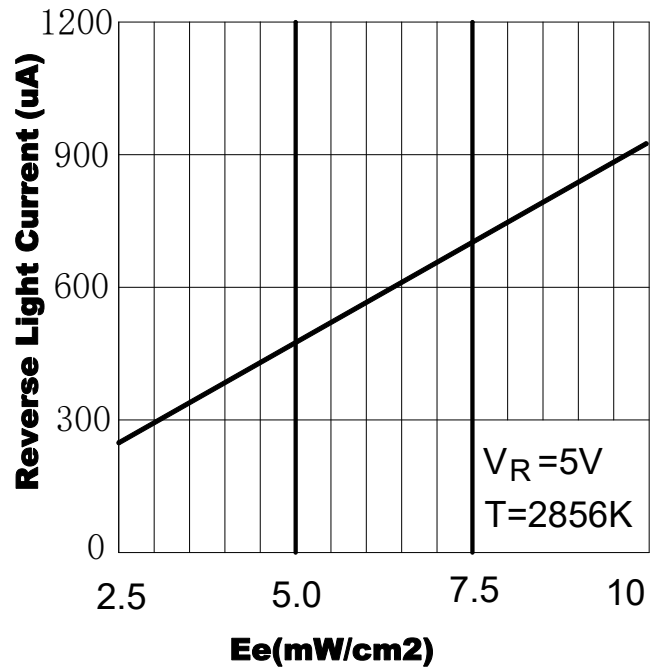


Fig.5 Terminal Capacitance vs.  
Reverse Voltage

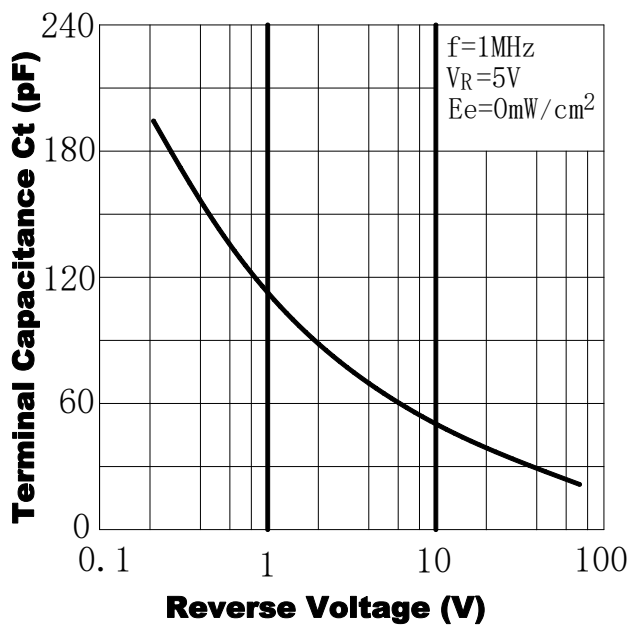
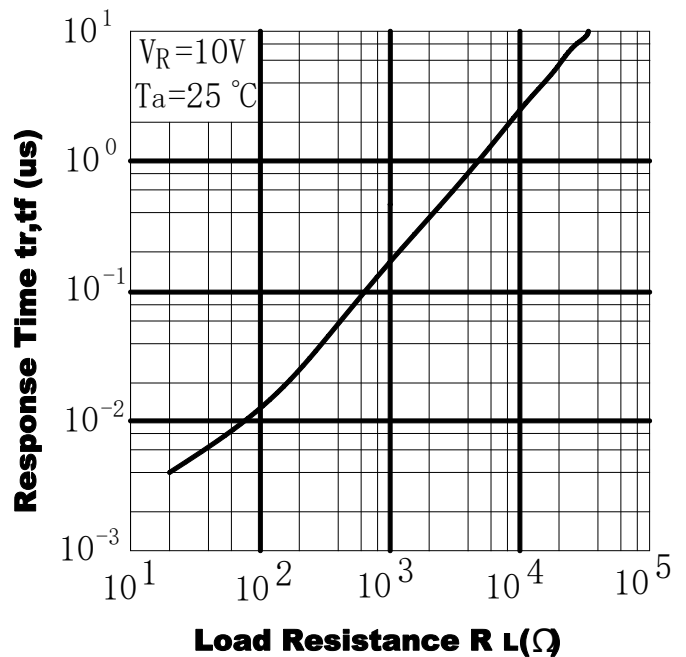


Fig.6 Response Time vs.  
Load Resistance



**■ Notes**

1. Above specification may be changed without notice. SHUGUAN will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. SHUGUAN assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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4. This products is bare chip products (wafers or diced chips), Unsealed products are not protected by an external enclosure and so require especially strict care to prevent physical breakage or contamination. It has protective tape, which is removed prior to use.
5. Condensation may form on the chip surface in environments subject to sharp or sudden fluctuations in temperature, so avoid use in such locations.
6. Applying excessive force to the product using a printed circuit board may cause the board to warp. This warping may damage the chip,wires connections, so use caution.
7. Do not let anything come in contact with the chip surface. Though the chip is hard, it is also brittle an easily notched. Sharped or hard items that come in contact with the chip may case cracks or scratches, which can lead to fluctuations in electrical characteristics or poor device reliability.
8. This kind of products due to the customer's external dimensions, performance parameters and other requirements are different, standard products are difficult to meet customer needs, the company provides customized services, can be developed and designed by our company new products, can also provide customers with processing and generation services.