

## Technical Data Sheet

### Photo Diode Array: PDA5426

#### ■ Features

- 14 photodiodes
- Active cell area: 2.0mm\*5.0mm+2.0mm\*2.0mm
- Fast response time
- High photo sensitivity
- Pb free
- The product itself will remain within RoHS compliant version.

#### ■ Descriptions

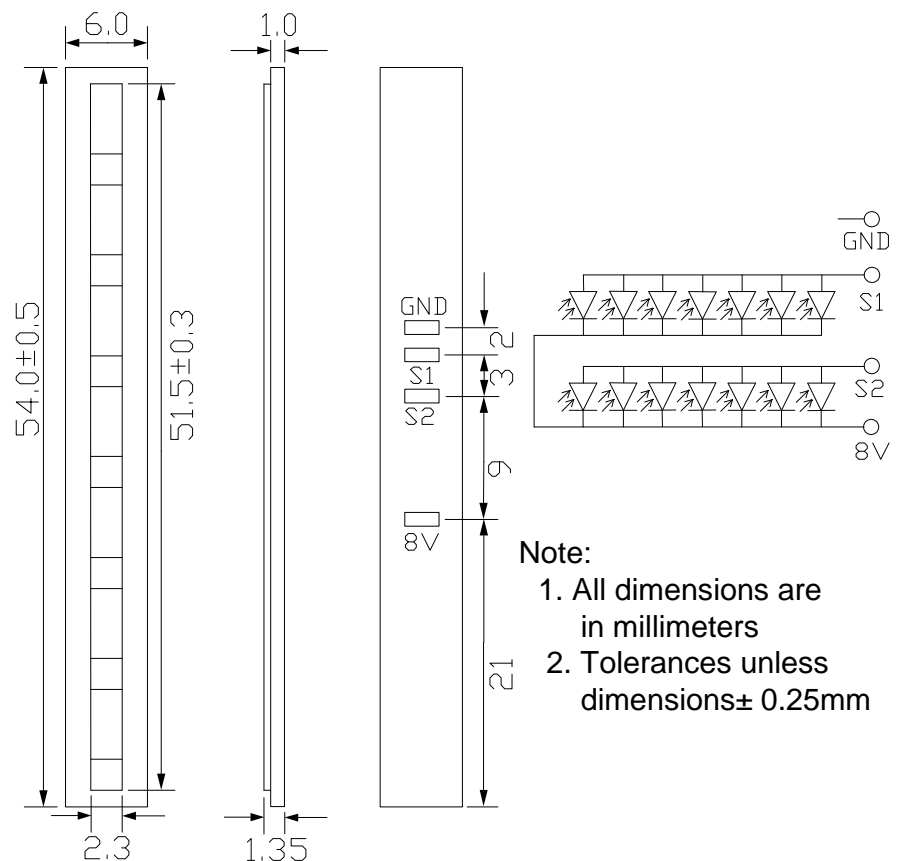
PDA5426 is an array of 14 high sensitive and high speed silicon photodiodes mounted on PCB.



#### ■ Applications

- High speed photo detector

#### ■ Package Dimensions



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

Parameter	Symbol	Rating	Units
Reverse Voltage	VR	60	V
Power Dissipation	Pd	150	mW
Lead Soldering Temperature	Tsol	260	°C
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	°C

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Rang of Spectral Bandwidth	$\lambda_{0.5}$	----	380	----	1100	nm
Wavelength of Peak Sensitivity	$\lambda_p$	----	----	940	----	nm
Open-Circuit Voltage	Voc	Ee=5m W/cm <sup>2</sup> $\lambda_p=940\text{nm}$	----	0.39	----	V
Short- Circuit Current	Isc	S1	----	500	----	$\mu\text{A}$
		S2		$\lambda_p=940\text{nm}$		
Reverse Light Current	IL	S1	----	500	----	$\mu\text{A}$
		S2		$V_R=5\text{V}$		
Dark Current	Id	Ee=0m W/cm <sup>2</sup> $V_R=10\text{V}$	----	----	30	nA
Reverse Breakdown	BVR	Ee=0m W/cm <sup>2</sup> $I_R=100\mu\text{A}$	60	----	----	V
Total Capacitance	Ct	S1	----	76	----	pF
		S2		$V_R=3\text{V}$ $f=1\text{MHZ}$		
Rise/Fall Time	$t_r/t_f$	$V_R=10\text{V}$ $R_L=1\text{K}\Omega$		150/150		nS

■ **Typical Electro-Optical Characteristics Curves**

Fig.1 Power Dissipation vs. Ambient Temperature

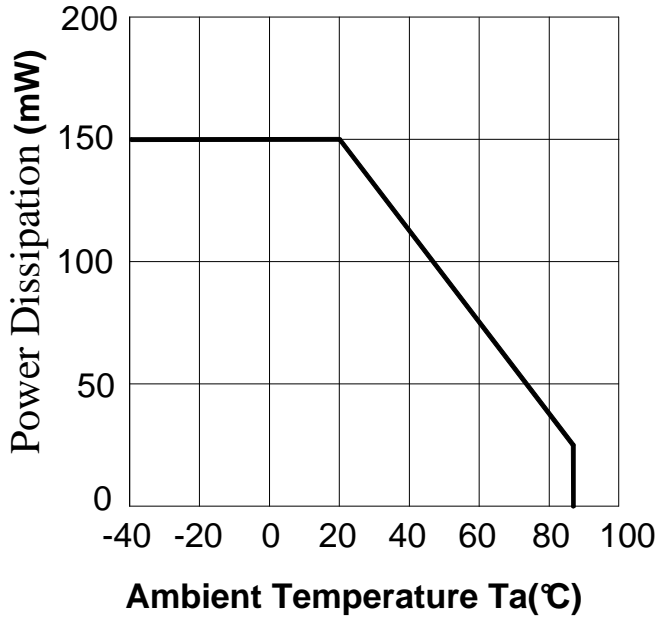


Fig.2 Spectral Sensitivity

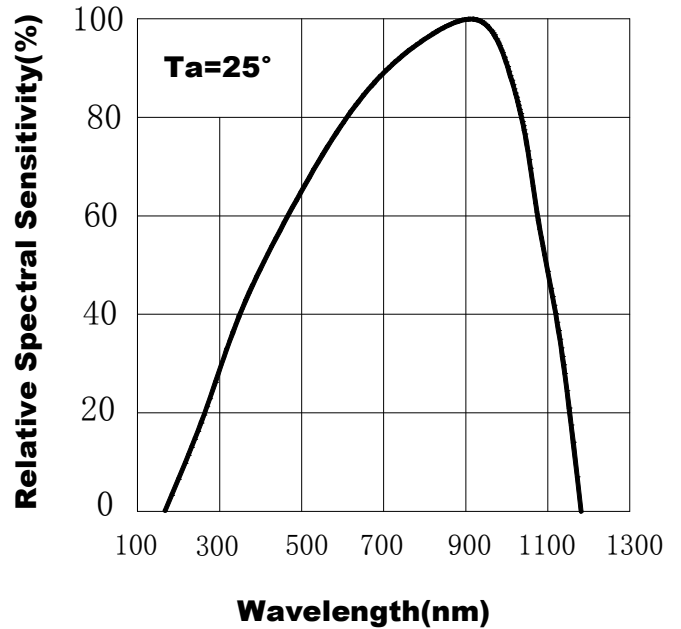


Fig.3 Dark Current vs. Ambient Temperature

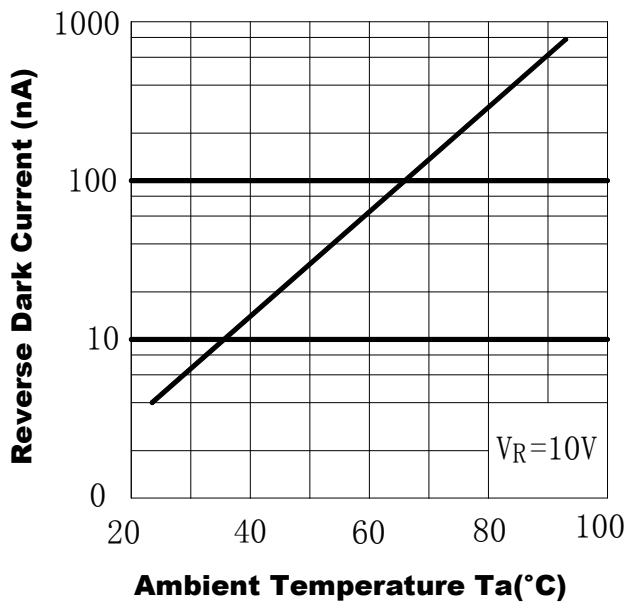


Fig.4 Reverse Light Current vs. Ee

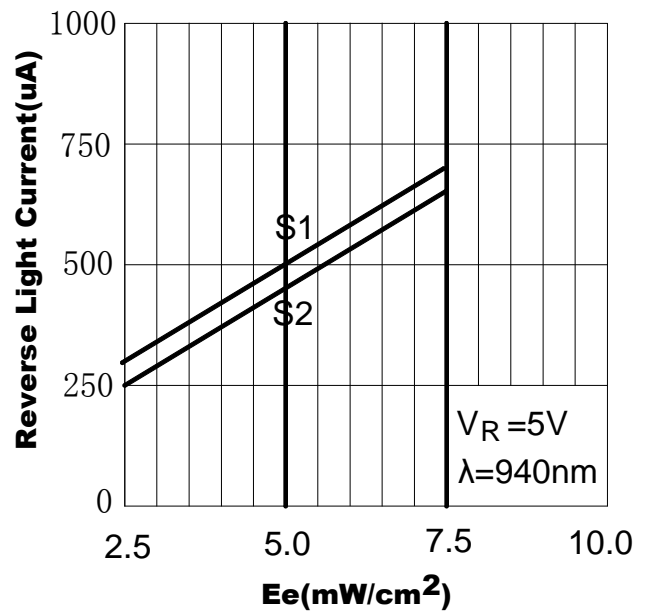


Fig.5 Terminal Capacitance vs.  
Reverse Voltage

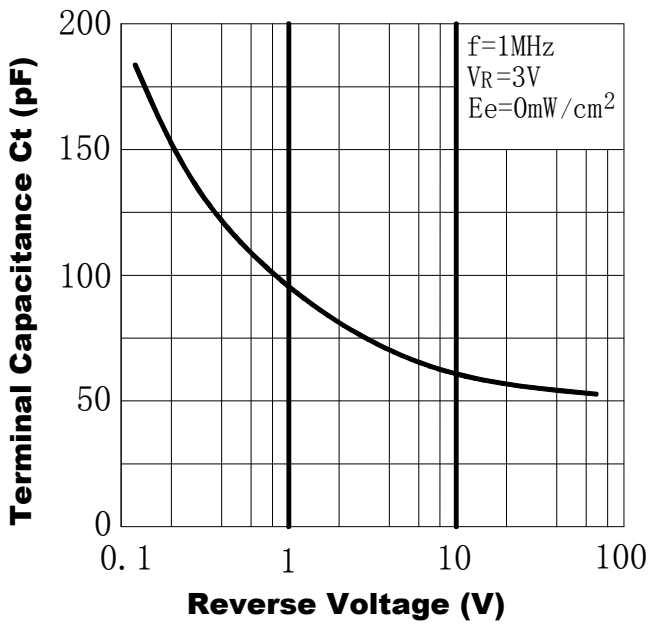
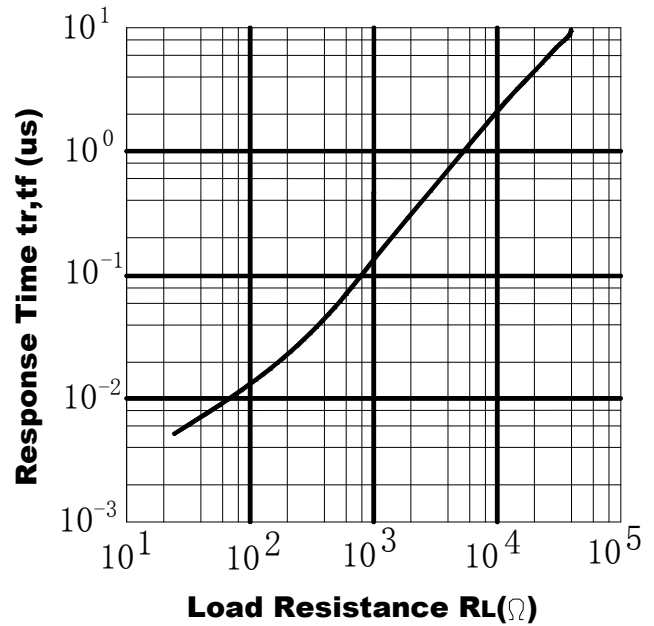


Fig.6 Response Time vs.  
Load Resistance



### ■ Notes

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