Description

Features

\*Lead-free package.

\* Package:1500 pcs/Reel.

The devices are suitable for :

\*printing process control.

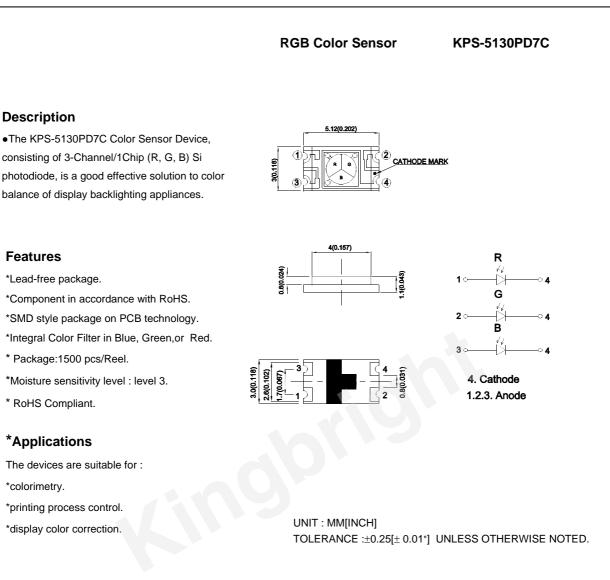
\*display color correction.

\* RoHS Compliant.

\*Applications

\*colorimetry.

### Part Number: KPS-5130PD7C



### \*Absolute Maximum Ratings(Ta=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	10	V
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Tsto	-40~+85	٥C
Soldering Temperature	Tsd	260	٥C

Note:

1. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity - Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



DATE: JUN/10/2016 DRAWN: L.T.Zhang

PAGE: 1 OF 5 EPR:1207100001

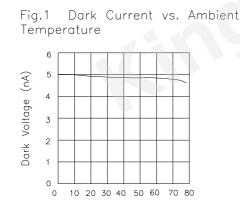
### Part Number: KPS-5130PD7C

Parameter	Symbol	Condition		Value		11	
				Min.	Тур	Max.	Unit
		Red		-	620	-	
Peak Sensitivity Wavelength	λp	Green		-	550	-	nm
		Blue		-	470	-	
Light Current(1)	I <sub>L1</sub>	100Lux <sup>[1]</sup> VR = 5V	Red	-	0.039	-	
			Green	-	0.042	-	uA
			Blue	-	0.022	-	
Light Current(2)	I <sub>L2</sub>	1000Lux <sup>[1]</sup> VR = 5V	Red	-	0.427	-	uA
			Green	-	0.498	-	
			Blue	-	0.262	-	
Diameter of the irradiation sensitive area	D			-	2.0	-	mm
Irradiation sensitive area per element	А			-	0.85	-	mm <sup>2</sup>
Photo sensibility of the single color areas	SMax	λ <sub>R</sub> =620 nm λ <sub>G</sub> =550 nm λ <sub>B</sub> =470 nm		-	0.33 0.25 0.18	-	A/W
Reverse Dark Current	ID	VR=5V		-		10	nA

Notes:

1.White fluorescent light (Color Temperature = 6500K) is used as light source.

2. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.



Ambient Temperature(\*c)

Fig.2 Spectral Response

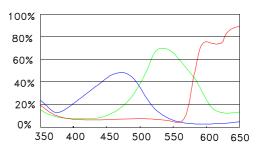
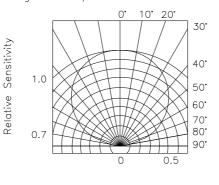
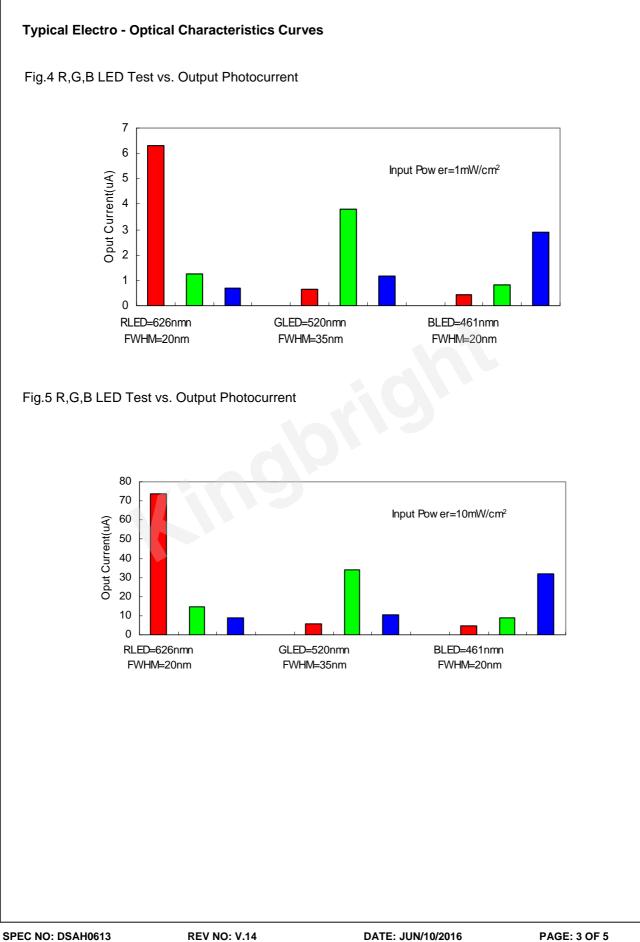


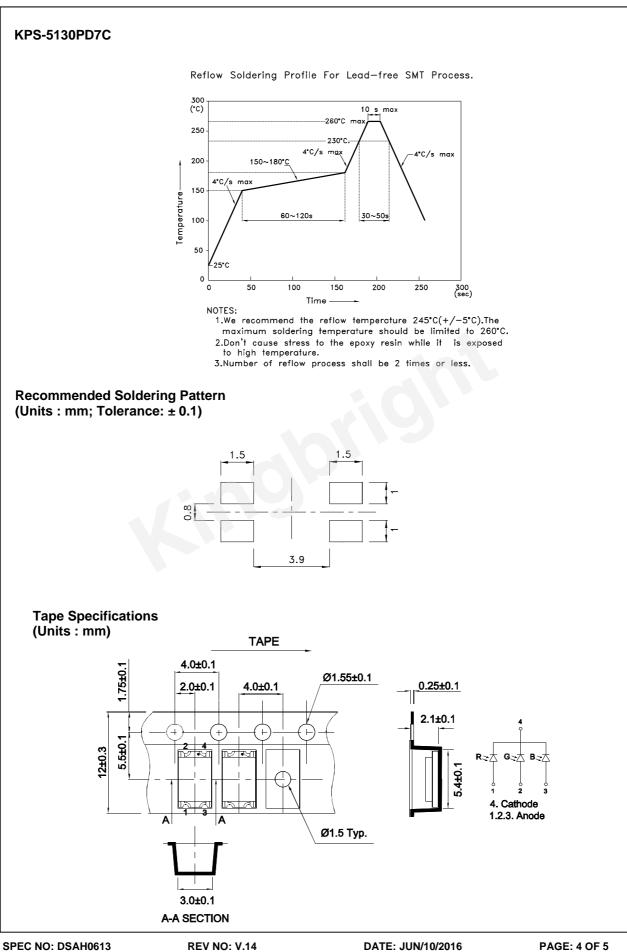
Fig.3 Relative radiant sensitivity vs. Angular displacement



SPEC NO: DSAH0613 APPROVED: Wynec

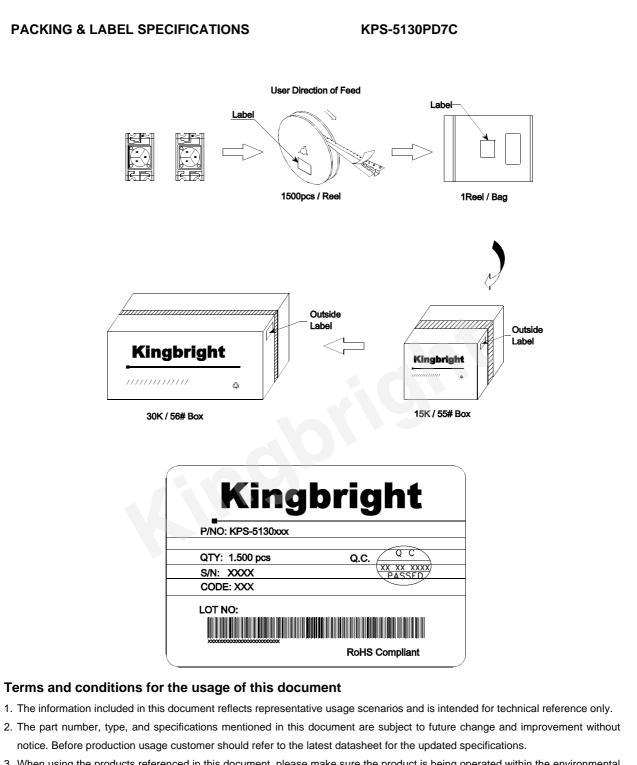
**REV NO: V.14 CHECKED:** Tracy Deng DATE: JUN/10/2016 DRAWN: L.T.Zhang PAGE: 2 OF 5 EPR:1207100001





PAGE: 4 OF 5 EPR:1207100001

### Part Number: KPS-5130PD7C



- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.kingbright.com/application\_notes

DATE: JUN/10/2016 DRAWN: L.T.Zhang