

Product Change Notification

PCN26-7-Rev A_AP series – Yellow/Green LED change

C&K

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Document revision

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1. Purpose

C&K has been notified by its supplier, the end of production of several LEDs.

This discontinuation from KINGBRIGHT (supplier A), without direct replacement proposal, is leading C&K to modify its AP lighted series by using the closest replacement from the market.

C&K switches selected ORMSEN (supplier B) to replace the bicolor Yellow/Green LED in its products.

The impact for our customers will be some differences in the lighting characteristics.

2. Overview

2.1 Change definition

Supplier A: KINGBRIGHT manufacturer of the bicolor Yellow-Green LED, reference **WP967-CKC8**.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP967-CKC8	Yellow (GaAsP/GaP)	WHITE DIFFUSED	2.6	10	60°
	Super Bright Green (GaP)		2.6	20	

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Yellow Super Bright Green	590 565		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Yellow Super Bright Green	588 568		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Yellow Super Bright Green	35 30		nm	I _F =20mA
C	Capacitance	Yellow Super Bright Green	20 15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Yellow Super Bright Green	2.1 2.2	2.5 2.5	V	I _F =20mA

Absolute Maximum Ratings at TA=25°C

Parameter	Yellow	Super Bright Green	Units
Power dissipation	75	62.5	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	140	140	mA
Operating / Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

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Supplier B: ORMSEN manufacturer of the bicolor Yellow-Green LED, reference **OS-RGY234-2W-TR1(CK)**.

The color, luminous intensity, the viewing angle and ratings of new Yellow-Green LED are somewhat different to the existing one.

Device Selection Guide

Chip Materials	Emitted Color	Resin Color
GaP	Green	White Diffused
GaP	Yellow	

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol		Rating	Unit
Continuous Forward Current	I _F	G/Y	30	mA
Peak Forward Current (Duty 1/10 @ 1KHZ)	I _{FP}	G/Y	75	mA
Reverse Voltage	V _R	G/Y	1.1	V
Power Dissipation	P _d	G/Y	75	mW
Operating Temperature	T _{opr}	G/Y	-40 ~ +85	°C
Storage Temperature	T _{stg}	G/Y	-40 ~ +85	°C
Soldering Temperature	T _{sol}	G/Y	260 °C for 5 sec.	

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Condition	
Luminous Intensity	I _v	G	8	25	-----	mcd	IF=20mA
		Y	8	25	-----		
Viewing Angle	2θ _{1/2}	G/Y	-----	90	-----	deg	IF=20mA
Peak Wavelength	λ _p	G	-----	575	-----	nm	IF=20mA
		Y		595			
Dominant Wavelength	λ _d	G	-----	570	-----	nm	IF=20mA
		Y		590			
Spectrum Radiation Bandwidth	Δλ	G	-----	20	-----	nm	IF=20mA
		Y		20			
Forward Voltage	V _F	G/Y	1.7	2.0	2.4	V	IF=20mA
Reverse Current	I _R	G/Y	-----	-----	10	μA	VR=1.1V

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3. Impact of Change and Qualification

3.1 Impact of Change:

There is no change to the form, fit and function of the switch.

3.2 Qualification method:

As the modification only affects the LED and its integration in the switch, the qualification focuses solely on the LED performance:

- Luminosity, Chromaticity Coordinates
- Endurance test
- Climatic tests
- Salt spray test
- Soldering test

The qualification has been completed in C&K, test report is available upon request.

Samples for qualification are already available upon request.

4. Part numbers affected

All item featuring **Yellow/Green LED** are affected by this notification.

Material N°	Material Description
AP4C208SZBE	SWITCH AP4C208SZBE
AP4D208TWBE	SWITCH AP4D208TWBE
AP4D208TZBE	SWITCH AP4D208TZBE
AP2E208SZBE	SWITCH AP2E208SZBE
AP4D208SZBE	SWITCH AP4D208SZBE

5. Date of application

Effective immediately. There is no remaining stock of LEDs WP967-CKC8 from Supplier A. All finished products are now manufactured using LEDs OS-RGY234-2W-TR1(CK) from Supplier B.

6. Conditions of application

Pricing and stock handling policy:

- Pricing: Any pricing and other sales conditions remain valid.
- Stock handling: no obsolescence and no specification modification are applied on any P/N. No return or scrap for obsolescence will be accepted

7. Customer qualification

C&K recommends its customers to carry on the lighting compatibility check and qualifications they feel necessary to make sure that they will be ready at the date of application. Switching characteristics are not modified in order to minimize the customer impact and make easier the modification acceptance.

8. Acknowledgement

We kindly ask you to acknowledge receipt of this information to your sales representative so C&K can start planning the phase in – out process accordingly.

Please forward your requirements in terms of samples & qualification files at the following email address: lquan@Littelfuse.com

9. Support

For any question, please contact your sales representative