

QUALITY
FIRST

OS-IN-2019-041

**Introduction of second source Chip
for OSCONIQ[®] S 3030 (Signify)
Customer information package**

OS QM CQM ICI PEN | 16.12.2019

Light is OSRAM

OSRAM
Opto Semiconductors

OS-IN-2019-041

Overview



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Reason for change

Per special request from Signify, this InfoNote is to notify Signify on the Introduction of second source Chip to increase supply security for OSCONIQ S 3030.

OSRAM OS (hereby refer to as OS) is planning on adding a second source to currently used in-house sapphire chip. The primary intent is to have a qualified alternate option to de-risk supply chain/delivery to Signify.

Additionally, the roadmaps shown by third party chip indicate good performance at package level which will enable OS to offer a competitive package to Signify.

The additional flexibility of having a third party chip as a second source improves our flexibility to maintain a sustainable supply and good performance upgrades in future.

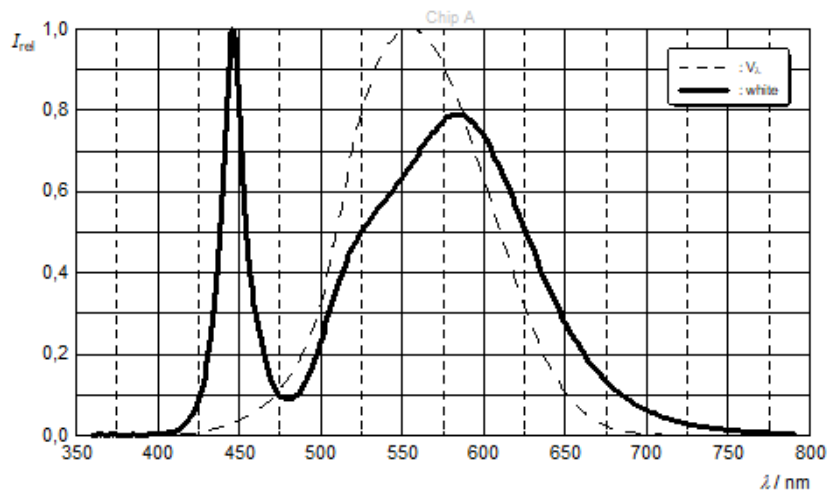
Description of change

Current status	New status
Chip source A (in-house) is used in the package.	Chip source A (in-house) or B (third party) may be used in the package.
<p>The optical and electrical characteristics are comparable between the two chip sources. Fit, form, function and reliability of the device is generally not affected, and therefore Datasheet need not to be updated.</p> <p>See the characteristics comparison in the following pages.</p>	

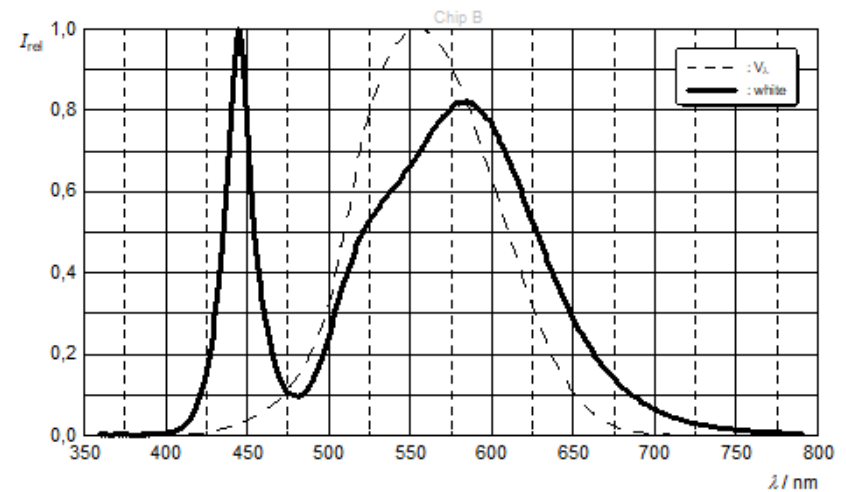
Description of change

Relative Spectral Emission

$\Phi_{rel} = f(\lambda); I_F = 150 \text{ mA}; T_J = 25 \text{ }^\circ\text{C}$



Chip A

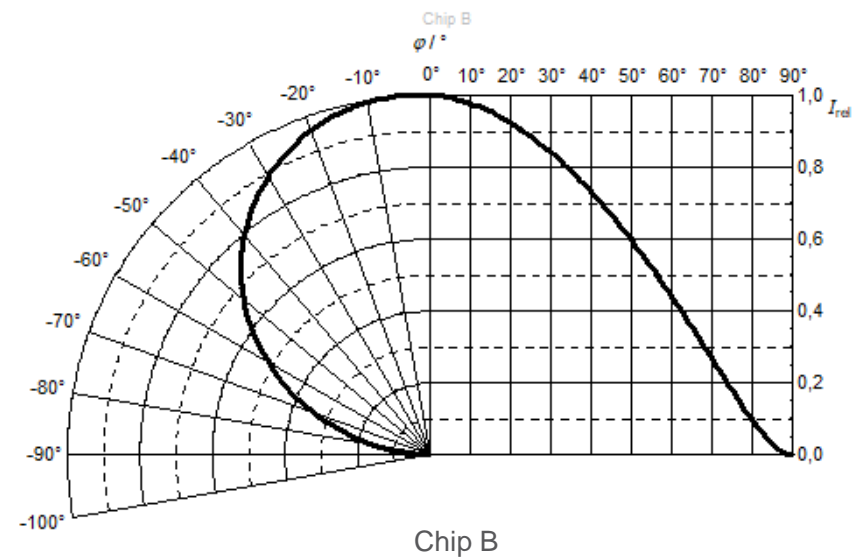
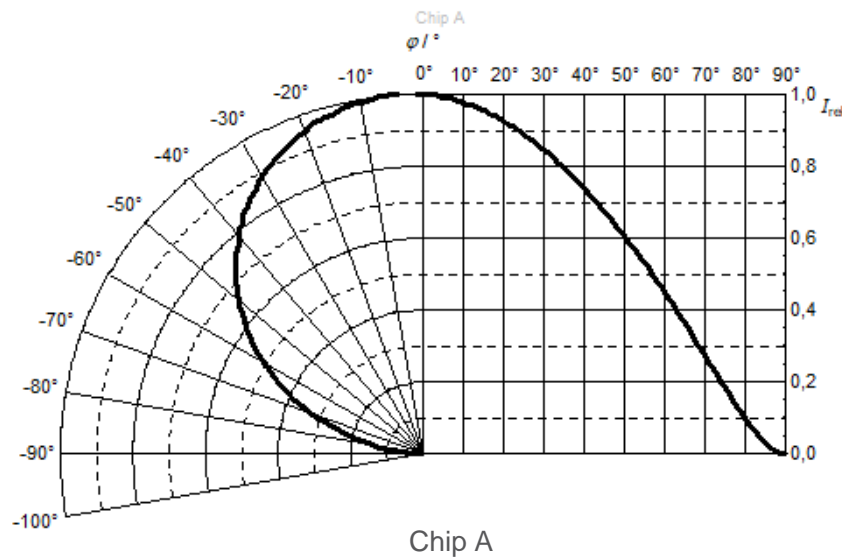


Chip B

Description of change

Radiation Characteristic

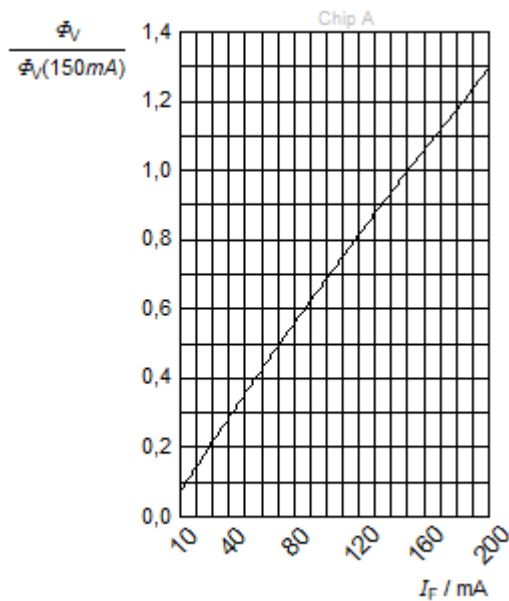
$$I_{rel} = f(\phi); T_J = 25\text{ }^\circ\text{C}$$



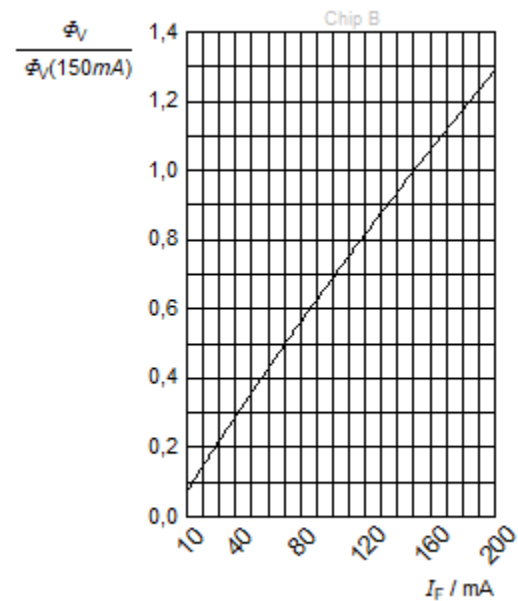
Description of change

Relative Luminous Flux

$$\Phi_V / \Phi_V(150 \text{ mA}) = f(I_F); T_J = 25 \text{ }^\circ\text{C}$$



Chip A

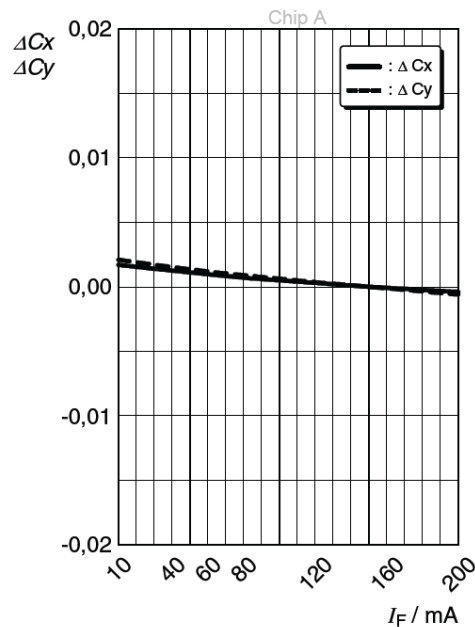


Chip B

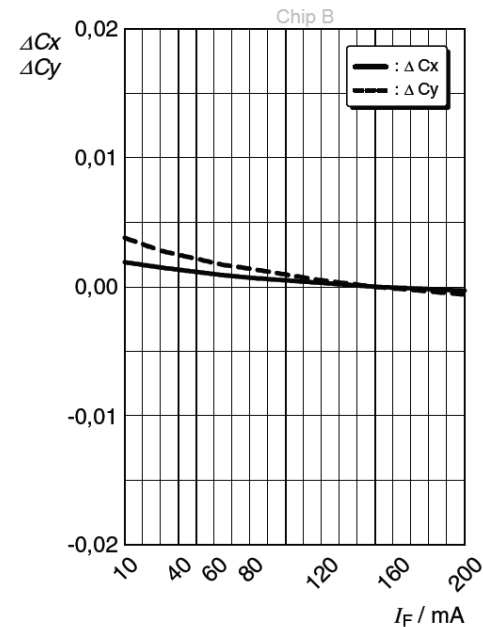
Description of change

Chromaticity Coordinate Shift

$\Delta Cx, \Delta Cy = f(I_F); T_J = 25\text{ }^\circ\text{C}$



Chip A

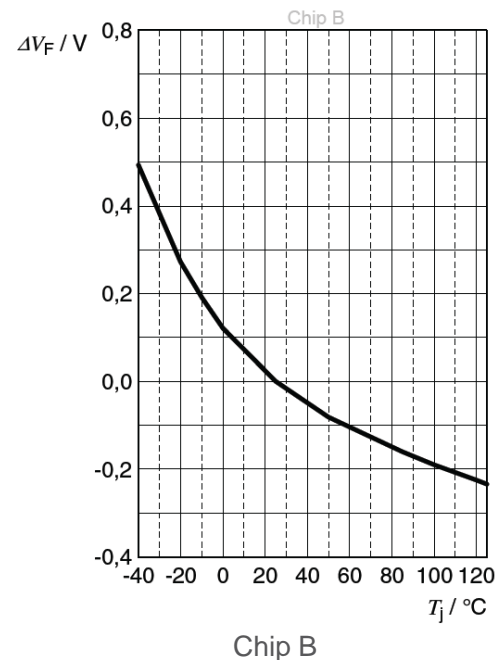
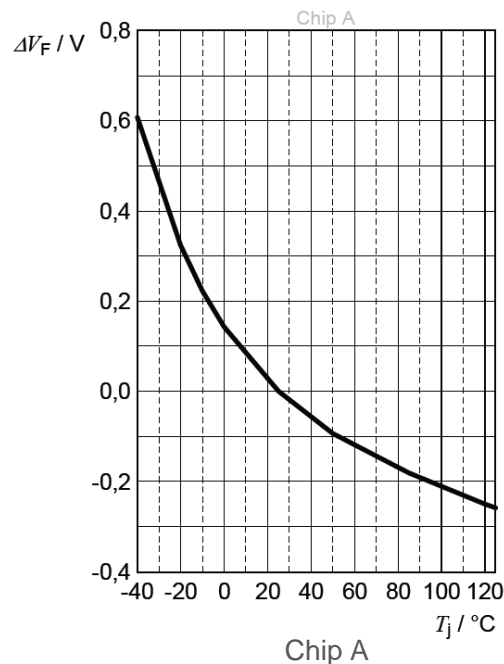


Chip B

Description of change

Forward Voltage

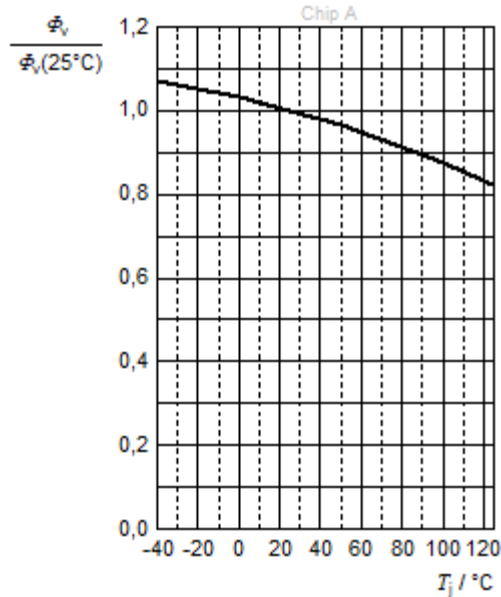
$$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_J); I_F = 150\text{ mA}$$



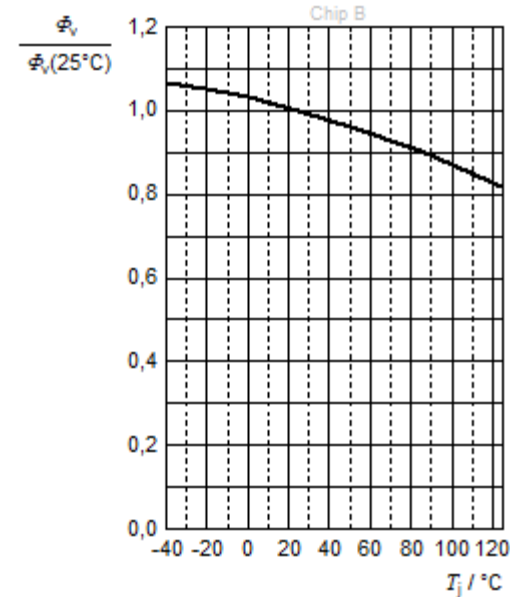
Description of change

Relative Luminous Flux

$$\Phi_V / \Phi_V(25^\circ\text{C}) = f(T_J); I_F = 150\text{ mA}$$



Chip A

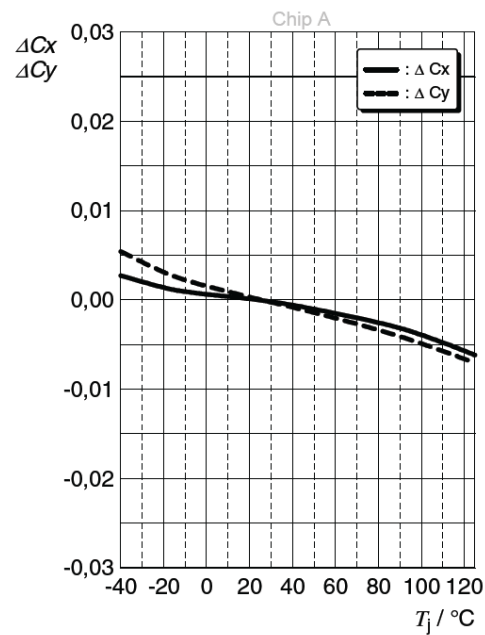


Chip B

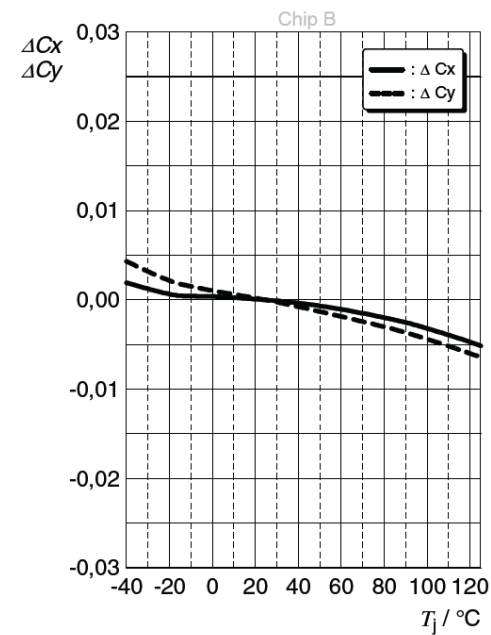
Description of change

Chromaticity Coordinate Shift

$\Delta Cx, \Delta Cy = f(T_j)$; $I_F = 150 \text{ mA}$



Chip A



Chip B

OS-IN-2019-041

Introduction of second source Chip



Time schedule

Year	2019	2020		
Month	Dec	Jan	Feb	Mar
Info Note Period				
Implementation				

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Thank you.

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16.12.2019

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Introduction of second source Chip for OSCONIQ® S 3030

Objective	Introduction of second source Chip for OSCONIQ S 3030	
Products affected	GW QSLR31.EM & GW QSLR31.PM	
Background	Increasing supply security by introducing second chip source	
Realization	<u>Current</u> Chip Source A	<u>New</u> Chip Source A or B
	See customer information package for details.	
Time Schedule	See customer information package for details.	
Assessment	Fit, form, function and reliability of the device is not affected.	

Please direct your inquiry to your local Sales office.

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