



OS-IN-2019-024

**Harmonization of datasheets for all IR Emitter-, LASER-
and Sensor-products**

Customer Information Package

OS QM CQM ICI | 01.08.2019

Light is OSRAM

OS-IN-2019-024

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1. Reason for Change

In order to standardize the binning definition within all OS datasheets, the binning parameters will be adapted according to the general OS calculation method.

Assessment

- No change in physical dimensions or electro optical properties.
- There will be no change for the actual specification of the products.

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2. Affected Products

Product Name	Product Name
BP xxxx	LPT xxxx
BPW xxxx	PL xxxx
BPX xxxx	PLPxxx xxxx
BPY xxxx	PLTx xxxx
IRL xxxx	SFH xxxx
KOM xxxx	SPL xxxx

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3. Description of Change

- The binning parameters will be defined according to the following rules:
 - **Brightness:** Brightness values are measured with a tolerance* of $\pm 11\%$
 - **Wavelength:** The wavelengths are measured with a tolerance* of ± 1 nm.
 - **Forward Voltage:** The forward voltages are measured with a tolerance* of ± 0.1 V.
 - **Photocurrent:** The photocurrent values are measured (by irradiating the devices with a homogenous light source and applying a voltage to the device) with tolerance* of $\pm 11\%$.

*product specific deviations are possible.

- Respective comments will be added in Glossary.

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4. Examples

SFH 4716AS

- Ordering Table (Ie):

	OLD	NEW	Comment
Ie	200 ... 500 mW/sr	224 ... 450 mW/sr	e.g. 200:224 = 0.89 → changed by 11 %

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4. Examples

SFH 4716AS

- Bining Table/ Datasheet (Ie)

	Bin	OLD	NEW	Comment
Ie	BB	200 - 320 mW/sr	224 - 280 mW/sr	e.g. 200:224 = 0.89 → changed by 11 %
	CA	250 - 400 mW/sr	280 - 355 mW/sr	
	CB	320 - 500 mW/sr	355 - 450 mW/sr	

- Characteristics Table (Vf)

	OLD	NEW	Comment
Vf	< 3.6 V	< 3.5 V	e.g. 3.6 - 3.5 = 0.1 V → changed by 0.1 V

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4. Examples

SPL PL90_3

- Characteristics Table (Lpeak)

	OLD	NEW	Comment
Lpeak	min. 895 nm typ. 905 nm max. 915 nm	min. 896 nm typ. 905 nm max. 914 nm	896 – 895 = 1 nm → changed by 1 nm

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4. Examples

SFH 320 FA

- Ordering Table (Ipce)

	OLD	NEW	Comment
Ipce	16 – 80 μ A	18 – 71 μ A	16:18 = 0.89 \rightarrow Changed by 11 %

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4. Examples

SFH 320 FA

- Bining Table/ Datasheet (Ipce)

	Bin	OLD	NEW	Comment
Ipce	2	16 – 32 μA	18 – 28 μA	16:18 = 0.89 → Changed by 11 %
	3	25 – 50 μA	28 – 45 μA	
	4	40 – 80μA	45 – 71 μA	

BPW 34

- Characteristics Table (Vf)

	OLD	NEW	Comment
Vf	< 1.5 V	< 1.4 V	e.g. 1.5 – 1.4 = 0.1 V → changed by 0.1 V

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5. Time Schedule

Changes will be applied for new datasheets created after 01.11.2019

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