

PCN

AO-PCN-2024-002-A

Introduction of Optimized IC and Addition of Binning Information for Chip LED SFH 5701 and SFH 5701 A01

28.04.2025

Dear Customer,

Please review this PCN and provide your feedback in the **Customer approval form** (at the end of this PCN document) to your ams OSRAM sales partner before **30.05.2025**

Your prompt reply will help ams OSRAM to assure a smooth and well executed transition. If ams OSRAM does not hear from your side by the due date, we will assume your (if you are a Distributor: and your customer's) full acceptance to this proposed change and its implementation.

ams OSRAM understands the time requirements your organization needs to approve this PCN.

However, if you can provide ams OSRAM an estimated date your organization will have finalized this PCN review, ams OSRAM can use this date to plan continued production to secure your order needs during the transition time.

Your attention and response to this matter is highly appreciated.

Please direct your inquiries to your local Sales office.

*) ams OSRAM aligns with the widely recognized JEDEC/ECIA/IPC Joint Standard No. 46, which stipulates:

- Customers should acknowledge receipt of the PCN within 30 days of delivery of the PCN.
- Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.
- After acknowledgement, lack of additional response within the 90 day period constitutes acceptance of the change. If the customer requires additional time to perform sample testing, beyond the 90 day review period, an extension must be negotiated with the supplier.

Subject of change: Introduction of Optimized IC and Addition of Binning Information for Chip LED SFH 5701 and SFH 5701 A01

Affected products: **Chip LED:**
SFH 5701; SFH 5701 A01

Our foundry partner has improved the process for manufacturing their ICs as part of their Continuous Improvement Program for more reliable backend process.

Reason for change: Customer has requested to have binning information to be added for SFH 5701, as categorized by Output Current (I_{out}). A new revision of the device is aligned to this change.

Current status

Current IC Fabrication with outdated backend processes.

New status

Optimization of metal for improved electromigration performance and oxide deposition for improved gap fill. Additionally, the new IC Fabrication backend process gives a better defectivity performance.

Description of change:

No Binning Information for I_{out}

I_{out} is categorized to 3 Bins

Bin	LL	UL
1	77 μA	104 μA
2	104 μA	140 μA
3	140 μA	189 μA

For details refer to file 2_CIP_AO-PCN-2024-002-P_ext

Product identification: Date code

Intended final PCN publication: April 2025

Time schedule for PCN material: (after implementation of change):

Final qualification report:	24.12.2024
Samples available:	28.04.2025
Intended Start of delivery:	01.06.2025 ^{*)} *) or earlier if released by customer and upon mutual agreement

Time schedule

Last time order date (LTO):	01.11.2025 ^{**))} **) Lead time and LTO quantity shall be mutually agreed between ams OSRAM and customer.
-----------------------------	--

for Pre-PCN material:
(prior to implementation
of change):

Last time delivery date (LTD):

01.04.2026^{***)}

***) planned last date for delivery of products of
current status

Introduction of Binning Information of Iout to be added in the
Datasheet

Assessment:

SFH 5701 New Datasheet Revision – Rev. 1.5

SFH 5701 A01 New Datasheet Revision – Rev. 1.6

Documentation:

Customer Information Package 2_CIP_AO-PCN-2024-002-N-A

Note:

Pre-PCN material: Products of current status, means before implementation of the changes
as described in the PCN.

PCN material: Products with implementation of the changes as described in the PCN.

Customer approval form PCN AO-PCN-2024-002-A

Introduction of Optimized IC and Addition of Binning Information for Chip LED SFH 5701 and SFH 5701 A01

Please list product(s) affected in your application(s):

Please check the appropriate box below:

- | | |
|---|---|
| <input type="radio"/> Approval:
We agree with the proposed plan | <input type="radio"/> Not relevant:
Change is not relevant for products in use. |
|---|---|
-

Plan cannot be accepted:

- We have objections:**
 - We request following Information:**
 - We request following Samples (according to PPAP requirement):**
 - Expected approval date (for Preliminary PCN):**
-

Remarks:

Sender:

Company:

Address / Location:

Signature:

Date:

Please return this approval form to your Sales partner.