

PCN

AO-PCN-2023-111-A

Additional Fab site (ams Osram Fab) for the following device groups: TCS3410, TSL2510, TSL252x, TSL2585, TMD2765, TMD3765

24.11.2023

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 **29.12.2023**.

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:

Additional Fab site (ams Osram Fab) for the following device groups:
TCS3410, TSL2510, TSL252x, TSL2585, TMD2765, TMD3765

group 1: devices with color coating
group 2: non-color coated devices

Affected products:

TCS34103, TSL25xx Device Family		
Ordering code	Description	Group
TCS34103	TCS34103 OLGA6 LF T&RDP	group 1
TCS34109	TCS34109 OLGA6 LF T&RDP	group 1
TSL25853P	TSL25853P OLGA6 LF T&RDP	group 2
TSL25223	TSL25223 OLGA6 LF T&RDP	group 2
TSL25203	TSL25203 OLGA6 LF T&RDP	group 2
TSL25213	TSL25213 OLGA6 LF T&RDP	group 2
TSL25107	TSL25107 OLGA6 LF T&RDP	group 2
TMD27653/ TMD37653 Device		
Ordering code	Description	group
TMD27653	TMD27653 OLGA8 LF T&RDP	group 2
TMD37653	TMD37653 OLGA8 LF T&RDP	group 1

Reason for change:

The purpose of this PCN is to notify the customer regarding the additional Fab site (ams Osram own CMOS Fab) to TSMC and an upcoming clear coating resist material change for both above-mentioned device groups.

For the additional Fab site, the current qualified CMOS Fab is TSMC Fab5. This is part of a strategic initiative, ams Osram AG is taking to ensure additional flexibility and capacity to further improve responsiveness and on time delivery and to shorten the lead time. This move not only bolsters overall flexibility but also reduces the cycle time to meet always-evolving customer needs. This change affects devices in both group 1 and group 2.

Clear coating resist material change (ONLY for group 1 devices).
In response to supply concerns arising from the REACH restriction update and raw material discontinuation, we are proposing a clear coating resist material change for devices in Group 1. Our resist supplier (FFEM) is phasing out the original material - CT-3050L-2. Together with FFEM we have thoroughly evaluated alternatives and propose replacing it with CT-3300, which has demonstrated nearly identical material performance.

Surface uniformity and striation performance remain comparable to the existing material, ensuring same quality and a seamless transition.

	<u>Current status</u>	<u>New status</u>
Description of change:	Sourcing CMOS wafers from external subcontractors (TSMC)	adding our own CMOS Fab as additional CMOS source (TSMC Fab5 + ams Osram FabB)
	Clear coating resist material CT-3050L 2 (only for group 1)	Clear coating resist material CT-3300 (only for group 1)

Product identification: e.g. separate part chains (SAP part#)

Time schedule for PCN material: (after implementation of change):	Inter. qualification report	End November 2023
	Final qualification report (Group 2 non color):	22 December 2023
	Final qualification report (Group 1 - color):	20 January 2024
	Samples available:	January 2024 <small>*) or earlier depending on product</small>
	Intended Start of delivery:	01 April 2024 ^{*)} <small>*) or earlier if released by customer and upon mutual agreement</small>

Assessment: The change will not affect the form, fit and function of the product. Product datasheet and package specifications remain the same.

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

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Additional Fab site (ams Osram Fab) for following device groups: TCS34xx, TSL25xx, TMD27xx, TMD37xx

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

Please check the appropriate box below:

<input type="radio"/> Approval: We agree with the proposed change and accept start of the shipment upon availability of PCN material	<input type="radio"/> Not relevant: Change is not relevant for products in use.
<input type="radio"/> Change cannot be accepted:	
<input type="radio"/> We have objections:	
<input type="radio"/> We request following Information:	
<input type="radio"/> We request following Samples:	
<input type="radio"/> Expected approval date:	
<input type="radio"/> Volume requirements for Pre-PCN material:	
<input type="radio"/> Remarks:	

Sender:

Company:

Address / Location:

Signature:

Date:

Please return this approval form to your Sales partner.

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