



Product Change Notification



Product Group: Opto Sensors & IRDC / 05-MAR-2009 / PCN-OSI-302-2009 Rev0

Alternate Production Site for 3mm, 5mm and PLCC2 Opto-Emitter Devices

DESCRIPTION OF CHANGE: The production of our 3mm, 5mm and PLCC2 LEDs and Infrared Emitters are moving out of current production plant in Shanghai.

In case of 3mm and PLCC2 devices, the production process will be transferred to our qualified lines in our Manila location. The 3mm and PLCC2 lines in Manila are in full production since more than 10 years and will be utilized for production consolidation. Both lines refer to the same standard as the lines in Sha. PLCC2 is completely automotive qualified (AEC-Q101). These devices will not change at all.

In case of 5mm devices, the production process will be transferred to a Subcon, who has a well established 5mm line in production also since many years.

The devices to be transferred to the Subcon will be qualified and released to the Vishay rigorous quality standards. The assembled emitting chips inside the package will remain as they are today. Accordingly, there are no changes in electro-optical performance of the concerned devices. Part numbers will also remain.

However, there will be minor changes in the materials used.

The Epoxy will change and will be Halogen Free.

The Lead Frame will remain in its material, but will slightly change in its dimensions.

This is explained in the attached file: "Attachment to PCN-OSI-302-2009.pdf".

The label will identify the products origin. An example is also illustrated in the above mentioned attachment.

Samples from the alternate production location for 3mm and PLCC2 affected devices are available from March 9th onwards with lead-times of 2-4 weeks.

Samples from the alternate production location for 5mm affected devices are available from May 4th onwards with lead-times of 2-4 weeks.

CLASSIFICATION OF CHANGE: Assembly Site

REASON FOR CHANGE: Details: Production consolidation

EXPECTED INFLUENCE ON QUALITY RELIABILITY / PERFORMANCE: No influence on quality.
No influence on reliability and performance.

PRODUCT CATEGORY: IR emitting diodes / LEDs

PART NUMBERS / SERIES / FAMILIES AFFECTED:

Please refer to attached detailed part number list.

VISHAY BRAND(s): VISHAY Semiconductors

TIME SCHEDULE:

Start Shipment Date: 01-JUL-2009
Last Time Buy Date:
Last Time Shipment Date:

SAMPLES AVAILABLE BEGINNING: 04-MAY-2009
We need samples for evaluation: Yes No
If Yes return this form to contact information below.

PRODUCT IDENTIFICATION: Label / Date code

QUALIFICATION DATA: available upon request

This PCN is considered approved, without further notification, unless we receive specific customer concerns before 29-MAY-2009 or as specified by contract.

ISSUED BY:

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For further Information, please contact your regional Vishay office.

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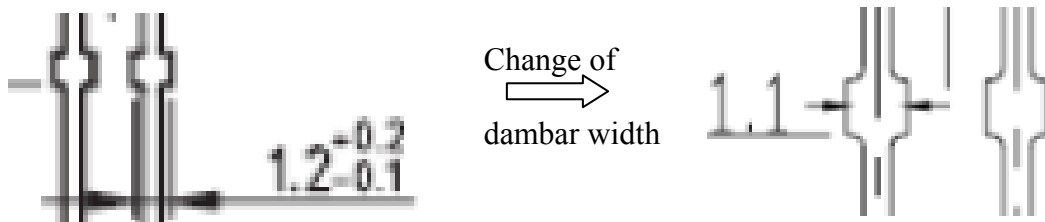
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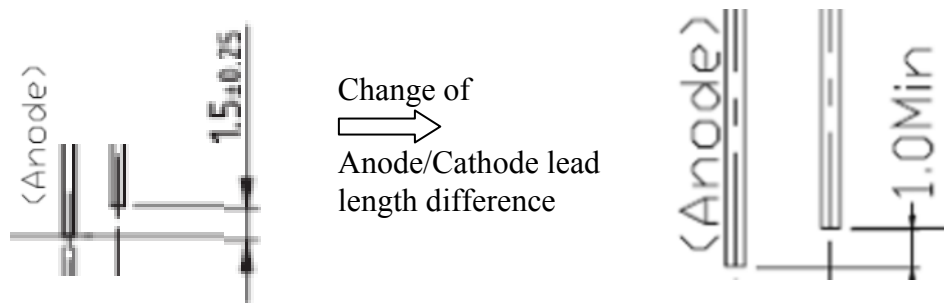
Attachment to PCN-OSI-302-2009 – Alternate Production Site for 3mm, 5mm and PLCC2 Opto-Emitter devices

A) Illustration of dimensional Changes for 5mm Devices (2 minor changes):

- 1) Dambar width will change **from 1.2mm to 1.1mm** as shown below



- 2) Anode lead difference will change from **1.5mm to 1mm** as shown below:



B) Illustration of plant code identification

<u>Part Marking</u>	<u>Shanghai</u>	<u>Manila</u>	<u>CM</u>
Date	27 or 63	69	24
Plant			
yywwz			
Package Code			



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Attached Part Number List:

Material List for Transfer PCN

Sensors / PLCC2	Sensors / 3mm	Sensors / 5mm			
VSML3710-GS08	TSAL4400	HS5100	TSAL7400-ASZ	TSHA6203-AS12Z	TSPF6400-ASZ
VSML3710-GS18	TSAL4400-AS12	TSAL5100	TSAL7600	TSHA6203-CS21	TSUS5200
V3700PH	TSAL4400-ASZ	TSAL5300	TSAL7600-CSZ	TSHA6203-MS21Z	TSUS5201
V3710PH-GS08	TSAL4400-MSZ	TSAL5300-CS21Z	TSAL7600-MSZ	TSHA6500	TSUS5201-AS12Z
V3710PH-GS18	TSAL4400P	TSAL5300-FSZ	TSFF5210	TSHA6501	TSUS5201-AS21
V3711PH-GS08	TSAL4400P-ASZ	TSAL5300-GSZ	TSFF5210-CS12	TSHA6502	TSUS5201-ES21
V3711PH-GS18	TSAL4400P-MSZ	TSAL5300-MSZ	TSFF5410	TSHA6503	TSUS5202
V3712PH	TSHA4400	TSAL6100	TSFF5410-ASZ	TSHA6503-AS21	TSUS5202-AS12
V3720PH-GS08	TSHA4400-AS12	TSAL6100-AS12Z	TSFF5410-CSZ	TSHA6503-CS12Z	TSUS5202-AS21
V3780PH-GS18	TSHA4400-MS12Z	TSAL6100-ES21	TSFF5410-ES12	TSHA6503-CS21	TSUS5202-CS21
V3790PH-GS08	TSHA4401	TSAL6100-MS12	TSFF5510	TSHF5210	TSUS5202-MS12Z
V3790PH-GS18	TSHA4401-AS12Z	TSAL6100CH1	TSFF5510-CSZ	TSHF5210-ES21	TSUS5400
V SMB3940X01-GS08	TSHA4480	TSAL6200	TSHA5200	TSHF5410	TSUS5400-AS12
VSMF3700-GS08	TSHA4480-AS12	TSAL6200-AS12	TSHA5201	TSHF5410-ES21	TSUS5401-AS12Z
VSMF3710-GS08	TSHA4480-MS12Z	TSAL6200-AS21	TSHA5202	TSHF6210	TSUS5401
VSMF3710-GS18	TSHF4410	TSAL6200-ASZ	TSHA5203	TSHF6210-CS21	TSUS5402
VSMF4710-GS08	TSUS3400	TSAL6200-ES21	TSHA5203-AS12Z	TSHF6410	TSUS5402-AS12Z
VSMF4720-GS08	TSUS3400-AS12	TSAL6200-ESZ	TSHA5500	TSHG5210	V5300P-MSZ
VSMF9700X01-GS18	TSUS3400-CS12Z	TSAL6200-MS12Z	TSHA5501	TSHG5410	V5410P
VSMG2700-GS08	TSUS3410	TSAL6201F	TSHA5502	TSHG6200	V5510P
VSMG2720-GS08	TSUS4300	TSAL6400	TSHA5502-AS12Z	TSHG6210	V5510P-CSZ
VSMG3700-GS08	TSUS4300-ASZ	TSAL6400-CS12	TSHA5502-AS21	TSHG6400	V612P
VSMS3700-GS08	TSUS4400	TSAL6400-CSZ	TSHA5503	TSHG6400-CSZ	V612P-ESZ
VSMS3700-GS18	TSUS4400-AS12Z	TSAL6400-MSZ	TSHA5503-AS21	TSHG6410	V612P-MS21
	TSUS4400-MS12Z	TSAL7200	TSHA6200	TSHG8200	V6211P
	V4404P	TSAL7200-ASZ	TSHA6201	TSHG8200-ASZ	V6411P
	VSLB3940	TSAL7300	TSHA6202	TSHG8400	
	VSLB3948	TSAL7400	TSHA6203	TSHG8400-ASZ	

Visibles / 5mm					
TLCO5100	TLCY6200L	TLHG5205	TLHK5400	TLHR6405-BT12Z	TLLY5400
TLCPG5100	TLCY6800	TLHG5205-AS21	TLHK5800	TLHY5200	TLLY5401
TLCR5100	TLCYG5100	TLHG5400	TLHP5800	TLHY5400	TLUR5400
TLCR5200	TLCYG6101K	TLHG5400-AS12Z	TLHR5200	TLHY5400-AS12Z	TLUR5400-AS12Z
TLCR5800	TLCYG6101K-AS21	TLHG5401	TLHR5201	TLHY5401	TLUR5401
TLCR5800-AS21	TLDR5400	TLHG5405	TLHR5205	TLHY5405	TLUR6400
TLCR6200-AS12	TLDR5800	TLHG5405-AS12Z	TLHR5400	TLHY5800	TLUR6401
TLCR6800	TLDR5800-AS12Z	TLHG5800	TLHR5400-AS12Z	TLHY6200-CS12	VLCPG5100
TLCS5100	TLDR6400	TLHG6200	TLHR5401	TLHY6400	VLCSS5130
TLCY5100	TLDR6800-AS12Z	TLHG6200-CS12	TLHR5405	TLHY6400-CS12Z	VLCSS5230
TLCY5100K	TLHB5100	TLHG6400	TLHR5405-AS12Z	TLHY6400-MS12Z	VLCSS5830
TLCY5101	TLHB5102	TLHG6400-AS12Z	TLHR5405-AS21	TLHY6401	VLCW5100
TLCY5101-AS12Z	TLHB5400	TLHG6400-CS12Z	TLHR6200-CS12	TLHY6405	VLCW5101
TLCY5200	TLHB5800	TLHG6401	TLHR6200-CS12Z	TLHY6405-ASZ	VLCW5101-CS12
TLCY5200L	TLHE5100	TLHG6401-AS12Z	TLHR6205	TLHY6405-BTZ	TLHG6200-CS12Z
TLCY5800	TLHE5800	TLHG6405	TLHR6400	TLLG5400	TLHY6200-CS12Z
TLCY6100	TLHF5400	TLHG6405-ASZ	TLHR6400-CS12Z	TLLG5400-AS12	
TLCY6100-AS21	TLHG5100	TLHG6405-BTZ	TLHR6401	TLLG5401	
TLCY6101-ASZ	TLHG5200	TLHG6800-AS12Z	TLHR6405	TLLR5400	
TLCY6200-AS12	TLHG5201	TLHK5100	TLHR6405-ASZ	TLLR5401	