

Light is OSRAM

01.10.2017

Dear Customer,

please find attached our OSRAM OS PCN announcing:

PCN OS-PCN-2017-013-A Product update for CHIPLD family

Important information for your attention:

Please respond to this PCN by indicating your decision on the approval form, sign it and return to your sales partner before **06.11.2017**.

OSRAM OS aligns with the widely-recognized JEDEC STANDARD "JESD46-B", which stipulates: "Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change".

Your prompt reply will help OSRAM OS to assure a smooth and well executed transition. If OSRAM OS 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.

Your attention and response to this matter is highly appreciated.

Please direct your inquiry to your local Sales office.

PCN OS-PCN-2017-013-A

Product update for CHIPLED family

Subject of change:	Product update for CHIPLED family	
Affected products	CHIPLED 0603, CHIPLED 0805	
Reason for change:	Upgrade due to discontinuation of PCB material.	
Description of change	1) Change of PCB material 2) Change of wire bond diameter For details please refer to the customer information package.	
Product identification:	Date code	
Time schedule:	Qualification report	available
	Samples available	October 2017
	Production release	October 2017
	Start of delivery	October 2017
	Last time order date	15.12.2017 ^{**)}
	**) last date for ordering products of current status	
Assessment:	No change of electro-optical characteristics.	
Documentation:	Customer information package: 2_cip_OS-PCN-2017-013-A_ext Qualification Report: 3_cip_OS-PCN-2017-013-A_ext	

Customer approval form

PCN OS-PCN-2017-013-A

Product update for CHIPLLED family

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

Please check the appropriate box below:

Agreement: We agree with the proposed change and accept start of the shipment upon availability of the new version.

Objections: We have objections:

Information requested: We need the following information:

Samples requested: We need the following samples:

Sender

Company:

Address / Location:

Signature:

Date:

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Product update for CHIPLLED family

Customer information package

OS QM CQM ICI | 01.10.2017

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Product update for CHIPLED family



List of affected products



CHIPLED 0603	CHIPLED 0805
LB Q39E	LG R971
LB Q39G	LH R974
LG Q396	LO R976
LR Q396	LS R976
LT Q39E	LY R976
LT Q39G	
LW Q38E	
LW Q38G	
LY Q396	
LO Q976	
LS Q976	

PCN OS-PCN-2017-013-A

Product update for CHIPLLED family



Description of change

Item	Current status	New status
<p>Change of PCB material (all types)</p>		 <p>No change of dimensions and metallization. The new PCB material has a more whitish appearance.</p>
<p>Change of wire diameter (certain types only)</p>	<p>LG / LR / LY Q396: 25µm</p> <p>Lx Q39E, Lx Q39G / LW Q38x: 30µm</p>	<p>LG / LR / LY Q396: 20µm</p> <p>Lx Q39E, Lx Q39G / LW Q38x: 20µm</p>

PCN OS-PCN-2017-013-A

Product update for CHIPLED family

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Reason for change

Product upgrade due to discontinuation of PCB material.

PCN OS-PCN-2017-013-A

Product update for CHIPLLED family



PCN Samples (planned)

CHIPLLED 0603	CHIPLLED 0805
LB Q39E-N2-35-1	LG R971-LM-1-0
LB Q39G-N2P1-34-1	LO R976-QR-1-0
LT Q39E-Q1S2-25-1	LS R976-Q1Q2-1-0
LT Q39G-Q2R2-25-1	LY R976-QR-36-0
LW Q38E-R1R2-4K4L-1	LS Q976-PQ-1-0
LW Q38E-R1R2-5K5L-1	
LW Q38G-R2S1-4K4L-1	
LW Q38G-R2S1-5K5L-1	
LY Q396-P1Q1-35-0	
LG Q396-PQ-34-0	

Samples are planned for October 2017

PCN OS-PCN-2017-013-A

Product update for CHIPLLED family



Qualification Plan

Test item	Test condition	Test duration	Sample size
RTSH	Reflow soldering	3x	30 pcs
TC	-40°C/85°C	1000c	30 pcs
T&HB	40°C/93%r.h., If = 5mA	1000hrs	30 pcs
SSLT	25°C, If according to derating	1000hrs	30 pcs
SSLT	85°C, If according to derating	1000hrs	30 pcs
PLT	25°C, If = 100mA, tp = 100µs, D= 10%	1000hrs	30 pcs
Solderability	Wetting 245°C, Dewetting: 260°C	n.a.	11 pcs

- Devices under test: LB Q39E, LW Q38E, LY Q396, LS R976
- Qualification results: available

Preliminary PCN OS-PCN-2017-013-A

Product update for CHIPLED family



Time schedule

- PCN publication: 01.10.2017
 - Qualification results: September 2017
 - Sample availability: October 2017
 - Production release: October 2017
 - Start of delivery: October 2017
 - Last time order date: 15.12.2017**)
- **) last date for ordering products of current status

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Thank you.

Affected QNO	Affected QNbrDesc	Affected QNbrDesc_Z1
Q65110A7212	LB Q39E-L2N2-35-1-5-R18	LB Q39E-L2N2-35-1
Q65110A7941	LB Q39E-N1P1-35-1-5-R18	LB Q39E-N1P1-35-1
Q65111A9207	LB Q39E-L2N2-35-1-5-R18-XX	LB Q39E-L2N2-35-1-XX
Q65112A1308	LB Q39E-N2P1-35-1-5-R18-XX	LB Q39E-N2P1-35-1-XX
Q65110A7211	LB Q39G-L2N2-35-1-5-R18	LB Q39G-L2N2-35-1
Q65110A7940	LB Q39G-N1P1-35-1-5-R18	LB Q39G-N1P1-35-1
Q65111A3893	LB Q39G-N2P1-34-1-5-R18-XX	LB Q39G-N2P1-34-XX
Q65111A9072	LB Q39G-N1P1-35-1-5-R18-XX	LB Q39G-N1P1-35-1-XX
Q65112A2046	LB Q39G-M2P2-35-1-5-R18-B	LB Q39G-M2P2-35-1-B
Q65111A3964	LG Q396-PS-35-0-20-R18	LG Q396-PS-35
Q65111A4575	LG Q396-QR-24-0-20-R18-Z-DL	LG Q396-QR-24-Z-DL
Q65111A6786	LG Q396-PS-34-0-20-R18-Z-DL	LG Q396-PS-34-Z-DL
Q65111A7144	LG Q396-PQ-35-0-20-R18-Z-SIE	LG Q396-PQ-35-SIE
Q65111A8861	LG Q396-QR-34-0-20-R18-Z-XX	LG Q396-QR-34-XX
Q62702P5179	LG R971-KN-1-0-20-R18	LG R971-KN-1
Q62702P5436	LG R971-KL-1-0-20-R18	LG R971-KL-1
Q62702P5437	LG R971-LM-1-0-20-R18	LG R971-LM-1
Q62702P5182	LH R974-LP-1-0-20-R18	LH R974-LP-1
Q65110A1102	LH R974-LM-1-0-20-R18	LH R974-LM-1
Q65111A9858	LH R974-MP-1-0-20-R18-XX	LH R974-MP-1-XX
Q62702P5188	LO Q976-PS-25-0-20-R18	LO Q976-PS-25
Q65110A1306	LO Q976-QR-24-0-20-R18	LO Q976-QR-24
Q62702P5101	LO R976-PS-1-0-20-R18	LO R976-PS-1
Q65110A5366	LO R976-QR-1-0-20-R18-Z	LO R976-QR-1-Z
Q65111A3537	LR Q396-P1Q2-1-0-10-R18	LR Q396-P1Q2-1
Q65111A6096	LR Q396-P1Q2-1-0-10-R18-LM	LR Q396-P1Q2-1-LM
Q62702P5187	LS Q976-NR-1-0-20-R18	LS Q976-NR-1
Q65110A6654	LS Q976-PQ-1-0-20-R18	LS Q976-PQ-1
Q65111A4478	LS Q976-NR-1-0-20-R18-Z-DL	LS Q976-NR-1-Z-DL
Q62702P5178	LS R976-NR-1-0-20-R18	LS R976-NR-1
Q65110A6501	LS R976-QR-1-0-20-R18	LS R976-QR-1
Q65110A8673	LS R976-Q1Q2-1-0-20-R18	LS R976-Q1Q2-1
Q65110A7998	LT Q39E-Q1S2-25-1-5-R18	LT Q39E-Q1S2-25-1
Q65111A1702	LT Q39E-Q1S2-25-1-5-R18-LM	LT Q39E-Q1S2-25-1-5-LM
Q65112A0328	LT Q39E-R1T2-25-1-5-R18-LM	LT Q39E-R1T2-25-1-LM
Q65110A7997	LT Q39G-Q1S2-25-1-5-R18	LT Q39G-Q1S2-25-1
Q65110A9618	LT Q39G-Q1R2-25-1-5-R18	LT Q39G-Q1R2-25-1-5
Q65111A6661	LT Q39G-Q2S2-25-1-5-R18	LT Q39G-Q2S2-25-R18
Q65112A1664	LT Q39G-Q2T1-25-1-5-R18	LT Q39G-Q2T1-25-1
Q65110A7207	LW Q38E-Q2R2-3K5L-3X4X-5-R18-NK	LW Q38E-Q2R2-3K5L-3X4X-NK
Q65110A7210	LW Q38E-Q1S2-3K6L-1-5-R18	LW Q38E-Q1S2-3K6L-1
Q65110A7939	LW Q38E-Q2R2-3K5L-1-5-R18	LW Q38E-Q2R2-3K5L
Q65110A7977	LW Q38E-R1R2-3K5L-3Y4X-5-R18-XX	LW Q38E-R1R2-3K5L-3Y4X-XX
Q65111A0116	LW Q38E-Q2R2-3K4L-1-5-R18	LW Q38E-Q2R2-3K4L
Q65111A0203	LW Q38E-Q2S2-4K5L-1-5-R18-Z	LW Q38E-Q2S2-4K5L-1-Z
Q65111A6244	LW Q38E-Q2R2-5K5L-1-5-R18-XX	LW Q38E-Q2R2-5K5L-1-XX

Q65111A6615	LW Q38E-R1R2-4K5L-1-5-R18-Z-XX	LW Q38E-R1R2-4K5L-1-XX
Q65111A9205	LW Q38E-Q2R2-3K4L-1-5-R18-XX	LW Q38E-Q2R2-3K4L-1-XX
Q65111A9253	LW Q38E-Q1S2-3K6L-1-5-R18-XX	LW Q38E-Q1S2-3K6L-1-XX
Q65111A9690	LW Q38E-R1S1-4K5L-1-5-R18-BSH	LW Q38E-R1S1-4K5L-1-BSH
Q65112A0091	LW Q38E-Q1S2-3K6L-1-5-R18	LW Q38E-Q1S2-3K6L-1
Q65112A1712	LW Q38E-Q2O0-4K5L-1-5-R18	LW Q38E-Q2O0-4K5L
Q65112A1713	LW Q38E-Q200-4K5L-1-5-R18-Z	LW Q38E-Q200-4K5L-1-Z
Q65110A7208	LW Q38G-Q2R2-3K5L-3X4X-5-R18-NK	LW Q38G-Q2R2-3K5L-3X4X-NK
Q65110A7209	LW Q38G-Q1S1-3K6L-1-5-R18	LW Q38G-Q1S1-3K6L-1
Q65110A7584	LW Q38G-Q2R2-3K5L-1-5-R18	LW Q38G-Q2R2-3K5L-1
Q65111A6114	LW Q38G-Q2R2-3K4L-1-5-R18-Z	LW Q38G-Q2R2-3K4L-1-Z
Q65111A6418	LW Q38G-Q2R2-34L-1-5-R18-XX	LW Q38G-Q2R2-34L-1-XX
Q65111A6974	LW Q38G-R2S2-3K5K-1-5-R18-Z	LW Q38G-R2S2-3K5K-1-Z
Q65111A7214	LW Q38G-R2O0-4K6L-3X4Y-5-R18-XX	LW Q38G-R2O0-4K6L-3X4Y-XX
Q65111A7884	LW Q38G-Q2O0-4K5L-1-5-R18-XX	LW Q38G-Q2O0-4K5L-1-XX
Q65112A2226	LW Q38G-R1S1-3K4L-1-5-R18-Z-XX	LW Q38G-R1S1-3K4L-1-Z-XX
Q65111A3365	LY Q396-P1Q2-36-0-10-R18	LY Q396-P1Q2-36
Q65111A6095	LY Q396-P1Q2-36-0-10-R18-LM	LY Q396-P1Q2-36-LM
Q65112A1247	LY Q396-P1Q1-35-0-10-R18-DL	LY Q396-P1Q1-35-DL
Q62702P5177	LY R976-PS-36-0-20-R18	LY R976-PS-36
Q65110A3282	LY R976-QR-36-0-20-R18	LY R976-QR-36