

Light is OSRAM

03.12.2018

OS-IN-2018-034

Production Updates on SPL DS90A_3

Objective	Production Updates on SPL DS90A_3	
Products affected	SPL DS90A_3	Q65112A3764
Background	<p>Change A)</p> <ul style="list-style-type: none"> ▪ Determine laser die functionality at maximum operating current (40A) ▪ Improve quality level of bare die laser SPL DS90A_3 <p>Change B)</p> <ul style="list-style-type: none"> ▪ Meet requested quantities closer ▪ Enable framewise delivery 	
Realization	Please refer to attached customer information package 1_cip_OS_IN-2018-034	
Time Schedule	Samples available (on request)	November 2018
	Qualification report	available
	Production release	November 2018
	Start of delivery	January 2019
Assessment	No change in the physical dimensions of the laser dies No change of the electrical and optical parameter The data sheet remains unchanged	
Documentation	Customer Information Package 1_cip_OS-IN-2018-034 2_cip_OS-IN-2018-034	customer information package qualification report

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Production Updates on SPL DS90A_3

Customer Information Package

OS QM CQM ICI | 03.12.2018

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Overview



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Production Updates on SPL DS90A_3

1. Background

Change A)

- Determine laser die functionality at maximum operating current (40A)
- Improve quality level of bare die laser SPL DS90A_3

Change B)

- Meet requested quantities closer
- Enable framewise delivery

Assesement

- No change in the physical dimensions of the laser dies
- No change of the electrical and optical parameter
- The data sheet remains unchanged

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Production Updates on SPL DS90A_3

2. Affected Products

- SPL DS90A_3 Q65112A3764

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Production Updates on SPL DS90A_3

3. Realization











Change A)

100% final testing of laser die with 40A pulses instead of 4A pulses

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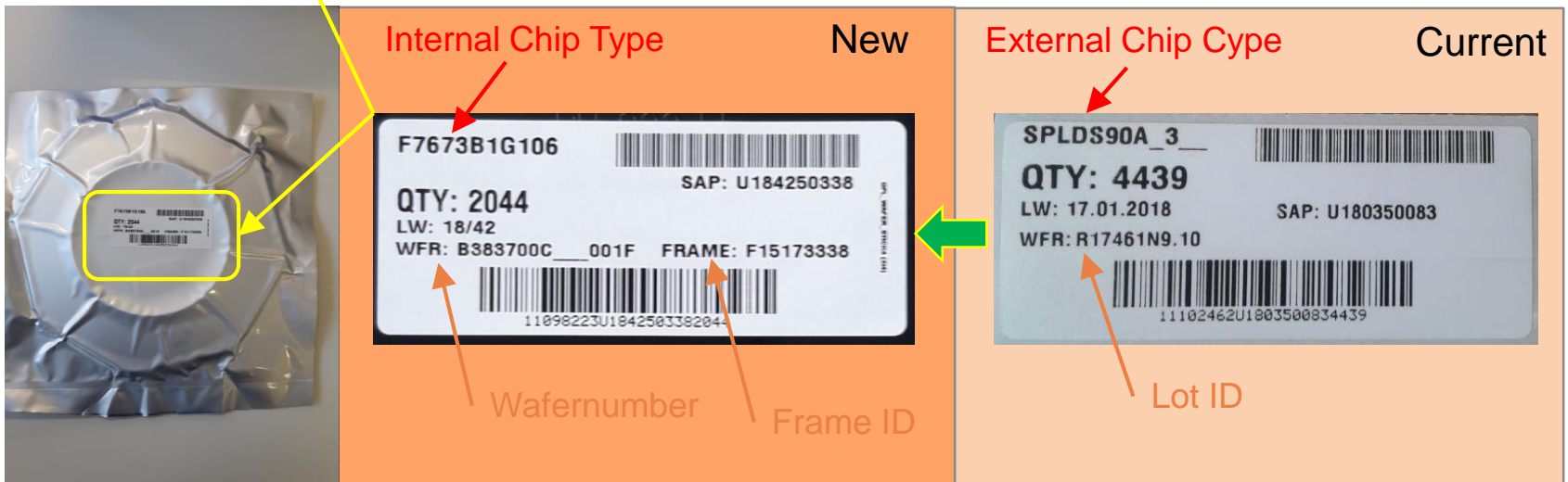
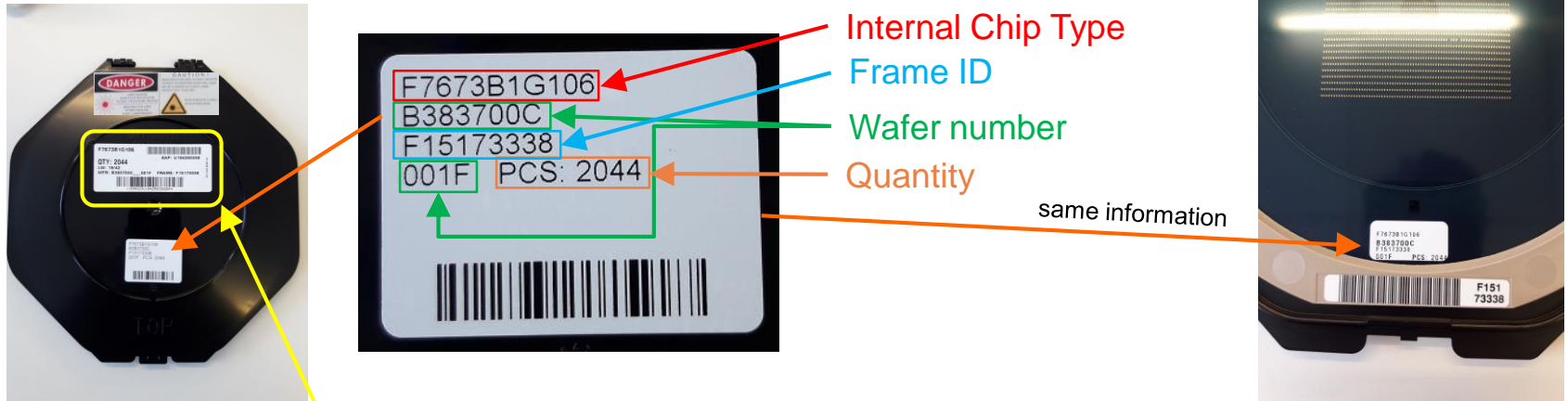
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3. Realization of Change B (Packing):

Status	Step (1)	Step (2)	Step (3)	Step (4)	Step (5)
Current					
	SAP label already goes onto frame shipper	Individual frame-shipper is shrink-wrapped one	Individual frame-shipper is shrink wrapped a second time		
New					

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Change B): Details to Step (3)



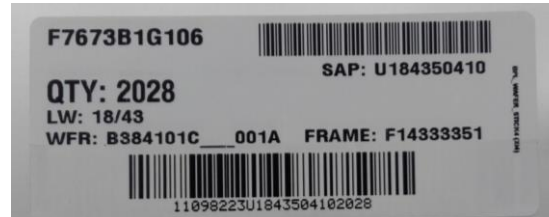
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Production Updates on SPL DS90A_3

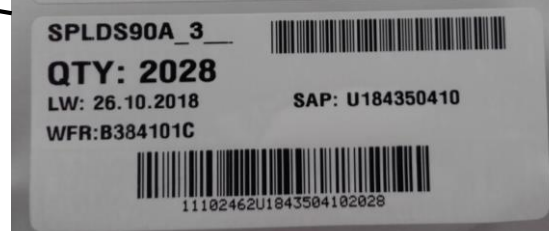
Change B): Details to Step (3)



Storage Label:
 External Chip Name: SPL DS90A_3
 Quantity: 2028
 Lot ID: B384101C
 SAP Batch: U184350410



Internal Chip Type Label (same as in step (2))
 Internal Chip type: F7673B1G106
 Quantity: 2028
 Delivery week: CW43 2018
 Wafer number: B384101C__001A
 Frame ID: F14333351
 SAP Batch: U184350410



External Chip Type Label
 External Chip Name: SPL DS90A_3
 Quantity: 2028
 Delivery date: 26.10.2018
 Lot ID: B384101C
 SAP Batch: U184350410



Shipment Label
 External Chip Name: SPL DS90A_3
 Q-Number: Q65112A3764
 SAP Batch: U184350410
 Delivery Note.: SH50011805800000001

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Production Updates on SPL DS90A_3

4. Qualification Tests Performed

Change A)

Test Performed	Conditions	Duration	Sample Size
Pulse life test (PLT) <i>JESD22-A108</i>	Ts= 105°C If = 40A;tp = 100ns, DC = 0,1%	1000h	3x26
Pulse life test (PLT) <i>JESD22-A108</i>	Ts= -40°C If = 40A; tp = 100ns, DC = 0,1%	1000h	3x26
Wet high temperature storage (WHTS) <i>JESD22-A101</i>	85°C / 85% r.h.	1000h	3x10
Temperature cycle (TC) <i>JESD22-A-104</i>	-40°C/125 15min each extreme	1000c	3x10
Elektrostatic discharge (ESD-HBM) <i>ANSI/ESDA/JEDEC JS-001</i>	Human body model	1kV, 2kV	3x10
Electrostatic discharge (ESD-MM) <i>JESD 22-A115</i>	Machine model	200V, 400V	3x10
Resistance to solder heat (RSH-wave) <i>JESD22-B106</i>	Wave soldering	3x	3x10

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Production Updates on SPL DS90A_3

4. Qualification Tests Performed

Change B)

No qualification tests needed – no impact on delivery or product quality

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Production Updates on SPL DS90A_3

4. Time Schedule

- Samples available (on request) November 2018
- Qualification report available
- Production release November 2018
- Start of delivery January 2019

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Thank you.