

Control No. PCN-20322

September 4, 2020

PRODUCT/PROCESS CHANGE NOTIFICATION

TYPE OF CHANGE: Design Manufacturing Other

This notification is provided in accordance with Power Integrations policy of product/process change notification. If you have any questions or need further assistance, please contact your regional Power Integrations sales office.

DESCRIPTION OF CHANGE

Power Integrations is adding Lapis Kagoshima, Japan factory for the fabricating of the products listed in this notification. There is no change in the manufacturing process or final test program.

REASON FOR CHANGE

Addition of an alternative production line for increased manufacturing capacity and flexibility.

PRODUCTS AFFECTED

Product Family	Part Numbers	Package
TinySwitch-4	TNY284DG, TNY285DG, TNY285DG0152, TNY285DG0246, TNY286DG, TNY286DG0152, TNY287DG, TNY287DG0105, TNY287DG0156, TNY288DG, TNY288DG0152, TNY288DG0202, TNY288DG0246, SC1152DG	SO-8C
	TNY284KG, TNY285KG, TNY285KG0152, TNY286KG, TNY286KG0156, TNY287KG, TNY287KG0152, TNY287KG0156, TNY288KG, TNY288KG0152, TNY289KG, TNY290KG, TNY290KG0105, TNY290KG0152, TNY290KG0156	eSOP-12B
	TNY284PG, TNY285PG, TNY285PG0004, TNY286PG, TNY287PG, TNY288PG, TNY288PG0004, TNY288PG0164, TNY288PG0246, TNY289PG, TNY290PG, TNY290PG0105	PDIP-8C
TinySwitch-LT	TNY177DG, TNY178DG, SC1130DG	SO-8C
	TNY176PN0242, TNY177PN0242, TNY178PN0242, TNY179PN0242, TNY180PN0242	PDIP-8C

QUALIFICATION STATUS

Refer to Appendix 1 for the qualification data.

EFFECT ON CUSTOMER

No adverse impact is expected in manufacturers' applications. The product will meet the datasheet.

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EFFECTIVE DATE

December 31, 2020. This date is subject to change. Products assembled at the current wafer fab site will continue to be shipped after implementation of the above change.

SAMPLE AVAILABILITY

Samples will be available 10 weeks from the date of request. Please send requests for samples within two weeks after receipt of this notification to the local Power Integrations sales office.

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Appendix 1
Reliability Engineering
Qualification Report

Qualification Project: E202103

<p>Project Title: TinySwitch-4 and TinySwitch-LT Products Lapis Kagoshima Wafer Fab Transfer Qual Report</p> <p>Summary:</p> <p>Lapis Kagoshima wafer fab was previously qualified and running mass production on the wafer fabrication process used for TinySwitch-4 and TinySwitch-LT products. One lot of TinySwitch-4 was subjected 1000 hours DOPL with passing results to qualify the fab transfer; TinySwitch-LT die are derivatives of TinySwitch-4 and are qualified by extension. Representative products from each product family were subjected to yield and temperature characterization testing with acceptable results.</p> <p>Based on these results, Lapis Kagoshima is qualified for wafer fabrication of TinySwitch-4 and TinySwitch-LT products.</p>
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Reliability Test Descriptions and Conditions

Test Name	Conditions	Reference Specification
DOPL (Dynamic Operating Life Test)	Ta = 95°C (TJ = 125°C,), Vd(Peak) = 580V	EIA/JESD22-A108

Dynamic Operating Life Test (DOPL) Test Results

Device	Assy Lot	Wafer Fab	Package/Assy Site	Total Hours	Results (Rej/SS)
TNY290PG	9F607A	Lapis Kagashima	DIP-8C	1000	0 / 47

Conclusion: Based on passing qualification results, Lapis Kagoshima is qualified for wafer fabrication of all TinySwitch-4 and TinySwitch-LT products.

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CUSTOMER ACKNOWLEDGEMENT

Power Integrations requests you acknowledge the receipt of the above-mentioned PCN. If no acknowledgment is received within 30 days of this notification, Power Integrations will assume the change is acceptable. Lack of any additional response within 90 days of this notification further constitutes acceptance of the change.

Power Integrations reserves the right to ship either version manufactured after the effective date.

If you have any questions or need further assistance, please contact your regional Power Integrations sales office. Otherwise, please check the box below, acknowledging the receipt of the PCN.

The indicated Product/Process Change Notification was received by the undersigned authority.

Name/Title: _____

Signature: _____ Date: _____

Email Address/Phone#: _____

Company/Location: _____

CUSTOMER COMMENTS

Please email this signed form to pcn@power.com specifying the PCN# in the subject.

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