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Control No. PCN-14321

November 3, 2014

PRODUCT/PROCESS CHANGE NOTIFICATION

TYPE OF CHANGE: Design Manufacturing Other

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

DESCRIPTION OF CHANGE

XFAB Lubbock, Texas, USA is added as an alternative wafer fab site for *LinkSwitch™-HP* products listed below. XFAB Lubbock, Texas, USA is one of the qualified wafer fab sites of Power Integrations products.

REASON FOR CHANGE

Improve manufacturing flexibility and diversification of manufacturing sites.

PRODUCTS AFFECTED

Please see the table below.

Ordering Part Numbers	Package
LNK6663E – LNK6667E, LNK6663K – LNK6667K, LNK6663V – LNK6667V	eSIP, eSOP, eDIP
LNK6763E – LNK6767E, LNK6763K – LNK6767K, LNK6763V – LNK6767V	eSIP, eSOP, eDIP
LNK6773E – LNK6777E, LNK6773K – LNK6777K, LNK6773V – LNK6777V	eSIP, eSOP, eDIP

QUALIFICATION STATUS

See Appendix 1 for the qualification report.

CONFIDENTIAL

The information in this report contains confidential and proprietary information of Power Integrations and its manufacturing partners. By receiving this report, the customer agrees to use this information for the sole purpose of addressing the issues reviewed in this report and to keep the contents confidential. If it becomes necessary for the customer to disclose this information to a third party, a non-disclosure agreement, which provides reasonable and customary protection for the disclosed information, must be executed.

EFFECT ON CUSTOMER

No adverse impact is expected in customers' applications. The product will be guaranteed to meet the datasheet limits.

EFFECTIVE DATE

February 3, 2015. This date is subject to change. Products fabricated at the current location will continue to be shipped after the addition.

SAMPLE AVAILABILITY

Samples are available upon request. Please send requests for samples within two weeks after receipt of this notification to the local Power Integrations sales office. For customers that request samples, a reasonable accommodation will be made in order to allow time of customer's qualification in a case-specific manner.



Appendix 1
Reliability Engineering
Qualification Report

Qualification Project: E142105
Date of Report: 31-Oct-2014
Prepared By: Nick Stanco
Manager, Reliability Engineering

Project: LinkSwitch™-HP XFAB Lubbock Wafer Fab Qualification
<p>Summary:</p> <p>LinkSwitch™-HP products were subjected to reliability testing for qualification of wafer fabrication at XFAB in Lubbock, Texas to provide an additional wafer manufacturing site for these products. One lot of LNK6777E was subjected to a full set of reliability stress tests and all were completed with no valid failures. XFAB was previously qualified for production of similar products and two additional lots of XFAB TNY290PG are included below as supporting data. A parameter characterization study was completed with acceptable results.</p> <p>Based on acceptable reliability test results, XFAB, Lubbock is now qualified for wafer fabrication of LinkSwitch™-HP products.</p>
Qualification Vehicles: LNK6777E, TNY290PG

Reliability Test Descriptions and Conditions

Test Name	Conditions	Specification
DOPL (Dynamic Operating Life Test)	Tj=125°C, Vd(peak)=580V	EIA/JESD22-A108-D
HTRB (High Temperature Reverse Bias Test)	Ta=150°C, Vd=580V, biased in off-state	EIA/JESD22-A108-D
THBT (Temperature Humidity Bias Test)	85°C, 85% RH, Vd=30V, biased in off-state	EIA/JESD22-A101-C
TMCL (Temperature Cycle, Air to Air)	Unbiased, -40°C to +125°C for E package, -65°C to +150°C for PG package	EIA/JESD22-A104-D
HALT (Humidity Accelerated Life Test)	Ta=85°C, 85% RH, Tj=120°C, Vd(peak)=580 in switching power supply	Internal Standard

DOPL (Dynamic Operating Life)

Product	Lot No.	Test Duration	No. Failures/Sample Size
LNK6777E	3K435A	1000 hours	0/47
TNY290PG	0Y729A	1000 hours	0/47
TNY290PG	3A796B	1000 hours	0/47

HTRB (High Temperature Reverse Bias)

Product	Lot No.	Test Duration	No. Failures/Sample Size
LNK6777E	3K435A	1000 hours	0/47
TNY290PG	0Y729A	1000 hours	0/47
TNY290PG	3A796B	1000 hours	0/47

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THBT (Temperature Humidity Bias)

Product	Lot No.	Test Duration	No. Failures/Sample Size
LNK6777E	3K435A	1000 hours	0/47
TNY290PG	0Y729A	1000 hours	0/47
TNY290PG	3A796B	1000 hours	0/47

TMCL (Temperature Cycling)

Product	Lot No.	Test Duration	No. Failures/Sample Size
LNK6777E	3K435A	850 cycles	0/47
TNY290PG	0Y729A	500 cycles	0/47
TNY290PG	3A796B	500 cycles	0/47

HALT (Humidity Accelerated Life Test)

Product	Lot No.	Test Duration	No. Failures/Sample Size
LNK6777E	3K435A	1000 hours	0/20
TNY290PG	0Y729A	1000 hours	0/20
TNY290PG	3A796B	1000 hours	0/20

Conclusion: Based on acceptable reliability test results, XFAB, Lubbock is now qualified for wafer fabrication of LinkSwitch™-HP 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 until the inventory of the earlier version has been depleted.

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@powerint.com specifying the PCN# in the subject.

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