

Control No. PCN-19111

March 27, 2019

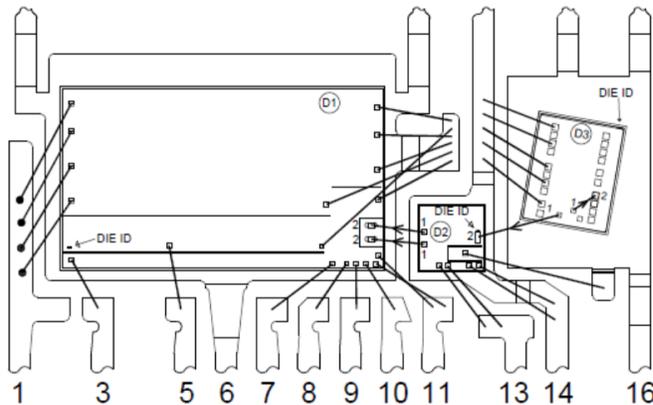
PRODUCT/PROCESS CHANGE NOTIFICATION

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

Add an alternative equivalent MOSFET (D3) to the HiperTFS-2 product family. There is neither change to the manufacturing sites nor the existing bill of materials other than the equivalent MOSFET (D3).



REASON FOR CHANGE

Manufacturing flexibility.

PRODUCTS AFFECTED

Product Family	Part Numbers	Package
HiperTFS-2	TFS7701H, TFS7702H, TFS7703H, TFS7704H TFS7705H, TFS7706H, TFS7707H, TFS7708H	eSIP-16F

QUALIFICATION STATUS

Refer to Appendix 1 for the qualification data.

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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 manufacturers' applications. There is no change to the datasheet

EFFECTIVE DATE

June 27, 2019. This date is subject to change. Products assembled using the current MOSFET will continue to be shipped after implementation of the above change.

SAMPLE AVAILABILITY

Samples will be available 8 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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Project Title: HiperTFS-2 Alternative MOSFET (D3) Qualification
Summary:

Reliability testing was performed to qualify an alternative MOSFET (D3) for the HiperTFS-2 product family. The alternative MOSFET was previously qualified with similar products. One lot of TFS7708H was subject to a suite of reliability stress tests with passing results obtained. Yield and temperature characterization were completed with acceptable results.

Based on these results, the alternative MOSFET (D3) is qualified for use with all HiperTFS-2 products.

Reliability Test Descriptions and Conditions

Test Name	Conditions	Reference Specification
DOPL (Dynamic Operating Life Test)	Ta = 95°C (TJ = 125°C,), Vd(Peak) = 480V	EIA/JESD22-A108
HTRB (High Temp Reverse Bias Test)	Ta=150°C; off-state bias, Vd = 480V	EIA/JESD22-A108
THBT (Temperature Humidity Bias Test)	85°C, 85% RH; off-state bias, Vd = 30V	EIA/JESD22-A101
TMCL (Temperature Cycle)	-40°C to +125°C, air-to=air	EIA/JESD22-A104

Dynamic Operating Life Test (DOPL)

Device	Assy Lot	MOSFET Wafer Lot	Package	Total Hours	Results (Rej/SS)
TFS7708H	M4K440A	CAWB-003	eSIP-16F	168	0 / 47

High Temperature Reverse Bias (HTRB)

Device	Assy Lot	MOSFET Wafer Lot	Package	Total Hours	Results (Rej/SS)
TFS7708H	M4K440A	CAWB-003	eSIP-16F	500	0 / 47

Temperature / Humidity Bias (THBT)

Device	Assy Lot	MOSFET Wafer Lot	Package	Total Hours	Results (Rej/SS)
TFS7708H	M4K440A	CAWB-003	eSIP-16F	500	0 / 47

Temperature Cycling (TMCL)

Device	Assy Lot	MOSFET Wafer Lot	Package	Total Cycles	Results (Rej/SS)
TFS7708H	M4K440A	CAWB-003	eSIP-16F	850	0 / 47

Conclusion: Based on passing results, the alternative MOSFET (D3) is qualified for use with all HiperTFS-2 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@power.com specifying the PCN# in the subject.

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