

Control No. PCN-23131

**April 25, 2023**

## PRODUCT/PROCESS CHANGE NOTIFICATION

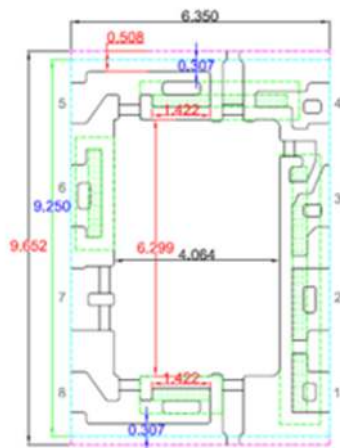
**TYPE OF CHANGE:**      ☐ Design      ☐ Manufacturing      ☒ For Information Only

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.

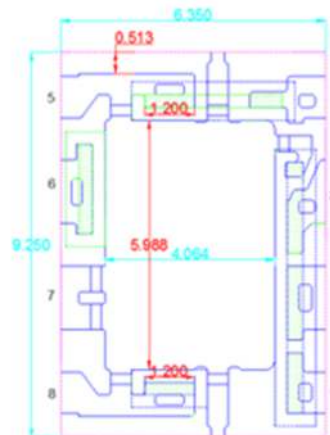
### DESCRIPTION OF CHANGE

An existing qualified leadframe supplier, Hua Yang, will be added as an alternative leadframe supplier for 160x236 mil leadframe to be used for the DPA SMD-8 products listed below.

This leadframe internal design configuration will remain the same as shown in the figure below, but there will be some small dimensional changes to inner lead features that will not affect fit, functionality or performance of the product. The plastic body length will also change as shown in the figure, but the new dimension is still within our datasheet package drawing tolerances.



Existing Leadframe Design (mm)



### New Leadframe Design (mm)

## REASON FOR CHANGE

For increased manufacturing capacity and flexibility.

## PRODUCTS AFFECTED

DPA423GN, DPA423GN-TL, DPA424GN-TL, DPA425GN, DPA425GN-TL

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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.

**QUALIFICATION STATUS**

Please refer to Appendix 1 for the qualification data.

**EFFECT ON CUSTOMER**

No adverse impact on manufacturers' applications is expected.

**EFFECTIVE DATE**

Immediate. Both leadframe versions will be shipped during the transition period.

**SAMPLE AVAILABILITY**

Not Required

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Appendix 1  
Reliability Engineering  
Qualification Report

Qualification Project: P223601

**Project Title: DPA-Switch Products Hua Yang SMD-8 160x236 Leadframe Qualification**

**Summary:**

Reliability testing was performed to qualify the Hua Yang 160x236mil SMD-8 leadframe for assembly of DPA-Switch products. Three DPA425GN qualification lots using the Hua Yang 160x236 mil SMD-8 leadframe were subjected to MSL4 + TMCL for qualification with passing results obtained. CSAM, Lead Integrity (Tension & Fatigue), Solderability and Construction Analysis were all completed with passing results. Yield analysis was completed on each product with acceptable results.

Based on these results, the Hua Yang 160x236 SMD-8 leadframe is qualified for use with DPA-Switch products (see above Products Affected list).

**Reliability Test Descriptions and Conditions**

Test Name	Conditions	Reference Specification
TMCL (Temperature Cycle, Air to Air)	-65°C to +150°C, air to air	EIA/JESD22-A104-E
MSL4 Preconditioning	24-hr 150°C Bake + 96-hr 30°C, 60% RH Soak + 3 Passes 260°C Solder Reflow	IPC/JEDEC J-STD-020

**TMCL (Temperature Cycling)**

Product	Lot #	Leadframe	Test Duration	Failures/Sample Size
DPA425GN	CS722E	Hua Yang 160x236 mil SMD-8	MSL4 + 1000 cycles	0 / 45
DPA425GN	CS722F	Hua Yang 160x236 mil SMD-8	MSL4 + 1000 cycles	0 / 45
DPA425GN	CS722G	Hua Yang 160x236 mil SMD-8	MSL4 + 1000 cycles	0 / 45

**Conclusion:** Based on passing results, the Hua Yang 160x236 mil SMD-8 leadframe is qualified for use with DPA-Switch products (see above Products Affected list).

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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**

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Please email this signed form to [pcn@power.com](mailto:pcn@power.com) specifying the PCN# in the subject.

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