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Control No. PCN-23061

March 20, 2023

PRODUCT/PROCESS CHANGE NOTIFICATION

TYPE OF CHANGE: Design Manufacturing For Info 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

Stamped leadframe will be added as an alternative leadframe to the BridgeSwitch products listed below.

There is neither change in the Bill of Materials nor a change to the data sheet.

REASON FOR CHANGE

Improve manufacturing flexibility.

PRODUCTS AFFECTED

BRD1160C-TL, BRD1161C-TL, BRD1163C-TL, BRD1165C-TL, BRD1167C-TL, BRD1260C-TL, BRD1261C-TL, BRD1263C-TL, BRD1265C-TL, BRD1267C-TL, SC3500C-TL.

QUALIFICATION STATUS

Please refer to Appendix 1 for the qualification data.

EFFECT ON CUSTOMER

There will be no adverse impact in manufacturers' applications.

EFFECTIVE DATE

Immediate.

SAMPLE AVAILABILITY

Not Required.

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.



Appendix 1
Reliability Engineering
Qualification Report

Project Title: BridgeSwitch Stamped Leadframe Qualification

Summary:

Reliability testing was performed to qualify the ASM FB0202 stamped leadframe for BridgeSwitch products. Three BridgeSwitch lots with the new stamped leadframe were subjected to MSL3 followed by TMCL and HTSL with all lots passing. Construction analysis, solderability and yield analysis were all performed with passing results.

Based on these results, the ASM FB0202 stamped leadframe is now qualified for BridgeSwitch products (see above Products Affected list).

Reliability Test Descriptions and Conditions

Test Name	Conditions	Reference Specification
TMCL (Temperature Cycle, Air to Air)	-40°C to +125°C, air to air	EIA/JESD22-A104
HTSL (High Temperature Storage Life)	Ta=150°C; unbiased	EIA/JESD22-A103
MSL3 Preconditioning	24-hr 150C bake → 40-hr 60°C, 60% RH soak → 3 passes 260C solder reflow	IPC/JEDEC J-STD-020

TMCL (Temperature Cycling)

Product	Lot #	Leadframe	Test Duration	Failures/Sample Size
BRD1160C-TL	MBF715C	Stamped ASM FB0202	MSL3 + 850 cycles	0 / 45
BRD1167C-TL	MBS520B	Stamped ASM FB0202	MSL3 + 850 cycles	0 / 45
BRD1167C-TL	MBS520C	Stamped ASM FB0202	MSL3 + 850 cycles	0 / 45

HTSL (High Temperature Storage Life)

Product	Lot #	Leadframe	Test Duration	Failures/Sample Size
BRD1160C-TL	MBF715C	Stamped ASM FB0202	MSL3 + 1000 hours	0 / 45
BRD1167C-TL	MBS520B	Stamped ASM FB0202	MSL3 + 1000 hours	0 / 45
BRD1167C-TL	MBS520C	Stamped ASM FB0202	MSL3 + 1000 hours	0 / 45

Conclusion: Based on passing results, BridgeSwitch products all now qualified with the ASM FB0202 stamped leadframe.

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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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