Product Qualification Report
产品质量和可靠性鉴定报告

FB30R07W2T7P_C54
EasyPACK™ 2B

Description

This product qualification report describes the characteristics of the product with respect to quality and reliability.
该鉴定报告描述了关于质量和可靠性方面的产品特性。

The qualification sample selection was done on production lots which were manufactured and tested on standard production processes and meet the defined requirements.
用于鉴定的样本采自常规的产线批次，这些批次的产出需经过标准的制造和测试工艺流程并且符合所定义的规范要求。

The qualification test results of those products as outlined in this document are based on **IEC standards** for target applications and may reference existing qualification results of similar products. Such referencing is justified by the structural similarity of the products.
本文中所概述的产品质量和可靠性测试结果是基于符合目标应用所对应的IEC标准，并且可能参考类似产品所现有的鉴定测试结果。该参考的实行是基于对产品之间的结构相似性的证明。

Qualification Assessment

Qualified according to **IEC standards** and assessed as PASS

鉴定评估结果

依照IEC标准，鉴定评估结果合格。

For further information about comparable products, please contact the nearest Infineon Technologies office (www.infineon.com).

有关同类产品的进一步信息，请向就近的英飞凌办事处联系咨询。(www.infineon.com).

Test Description 测试项描述	Abbr. 测试项缩写	Condition 测试条件	Devices 样本数量	Result 测试结果
High Temperature Reverse Bias IEC 60747-9 *) **)	HTRB	1000 h V_{CE} = 0,9 x V_{CES} (DC) T_{vj} = $T_{vj,op,max}$	≥ 72 dies	PASS
High Temperature Reverse Bias IEC 60747-2 *) **)	HTRB Rec.	1000 h V_R = 0,9 x V_{RRM} (AC) T_{vj} = $T_{vj,op,max}$	≥ 72 dies	PASS
High Temperature Gate Bias IEC 60747-9 *) **)	HTGB	1000 h V_{GE} = +/- V_{GES} (DC) T_a = $T_{vj,op,max}$	≥ 72 dies	PASS
High Humidity High Temperature Reverse Bias IEC 60747-5 *)	H3TRB	1000 h T_a = 85 °C; RH = 85 % V_{CE} = 80 V (DC)	≥ 72 dies	PASS
Power Cycling [sec.] IEC 60749-5 *)	PC	100.000 Cycles ΔTvj = 80 K T_{vj} = 150 °C	≥ 6 modules	PASS
Thermal Shock Test (two chamber) IEC 60749-25*)	TST	50 Cycles Ta = -40 °C to + 125 °C	≥ 6 modules	PASS
Vibration (Sine Sweep) IEC 60068-2-6*)	VIB	5 h each direction (x, y, z) f = 5...200 Hz f1 = 5...13 Hz: A = 7,5 mm (const.) f2 = 13...200 Hz: a = 50 m/s^2 v = 1 Octave/min	≥ 6 modules	PASS
ESD-Level (HBM) JEDEC/ANSI/ESDA (JS-001) AEC-Q100-002	ESD	R = 1.5 kΩ C = 100 pF	≥ 3 devices	Class 2 2.000 V to < 4.000 V

Notes:

*) Standards are taken as a reference; slight variations from the standards according to Infineon regulations may occur.
**) The RTI / max. housing temperature of the data sheet is considered during the test evaluation.

注释:

*) 标准的采用作为参考; 英飞凌的规范较国际标准可能会出现轻微差异。

**) 測試評估時，會考慮資料表的 RTI / 最高外殼溫度。

Tvj op > 150°C is allowed for operation at overload conditions. For detailed information also about lifetime calculations please refer to AN2018-14.

Trademarks
All referenced product or service names and trademarks are the property of their respective owners.

注册商标
所有被引用的产品或者服务名称以及注册商标均属其各自拥有者的资产。

Edition 2025-09-25

Published by
Infineon Technologies AG
81726 München, Germany

© 2025 Infineon Technologies AG. All Rights Reserved.

Do you have a question about this document?
Email: erratum@infineon.com

Document reference
n.a.

IMPORTANT NOTICE
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics (“Beschaffenheitsgarantie”).

With respect to any examples, hints or any typical values stated herein and/or any information regarding the application of the product, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

In addition, any information given in this document is subject to customer’s compliance with its obligations stated in this document and any applicable legal requirements, norms and standards concerning customer’s products and any use of the product of Infineon Technologies in customer’s applications.

The data contained in this document is exclusively intended for technically trained staff. It is the responsibility of customer’s technical departments to evaluate the suitability of the product for the intended application and the completeness of the product information given in this document with respect to such application.

For further information on the product, technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies office (**www.infineon.com**).

WARNINGS
Due to technical requirements products may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by Infineon Technologies in a written document signed by authorized representatives of Infineon Technologies, Infineon Technologies’ products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury.

版本 «ChangeDate»

发表于
英飞凌科技股份有限公司
81726 慕尼黑，德国

© 2025 英飞凌科技股份有限公司
版权所有。

关于本文如有任何疑问，请联系下列邮箱地址
Email: erratum@infineon.com

参考文献
无

重要声明
在任何情况下，本文件中提供的信息都不应被视为**任何条件或特征的保**证。

对于本协议中所述的任何示例、提示或任何**典型**值以及/**或任何有关**产品应用的信息，**英**飞凌科技股份有限公司（**以下**简称“**英**飞凌科技”）**在此不承担任何及所有**诸如此类的保证和责任，包含但不限于对**不侵犯任何第三方**单位的知识产权的保证。

此外，本文件中提供的任何信息均应以客户遵守本文件中规定的义务为前提，**包括有关客**户产品和任何**使用英**飞凌**科技**产品**的客**户应用**所适用的任何合法要求、**规范和标准。

本文件所包含的数据专供受过技术培训**的工作人**员使用。**客**户的技术部门有责任评估产品是否适合预期的应用，以及本文件中提供的与该应用相关的产品信息是否完整。

有关产品、技术、交货**条款和价格的**进一步信息，请与离您最近的英飞凌**科技**办事处**取得**联系(**www.infineon.com**).

警告
由于技术要求，产品可能含有危险物质。**如需了解有关**产品型号的信息，请**与离您最近的英**飞凌科技办事处**取得**联系。

除非获得已被英飞凌科技授权的代表的书面签署确认，且经**英**飞凌科技**明确批准**，**英**飞凌科技的产品不得用于**任何由于**产品失效或**因其使用后果可能**导致人身伤害的应用场合。