Product Qualification Report

IDWD100E120D7

Description

This product qualification report describes the characteristics of the product with respect to quality and reliability.

The qualification sample selection was done on production lots which were manufactured and tested on standard production processes and meet the defined requirements.

The qualification test results of those products as outlined in this document are based on **JEDEC** for potential applications and may reference existing qualification results of similar products. Such referencing is justified by the structural similarity of the products.

Qualification Assessment

Qualified according to **JEDEC Standard** and assessed as PASS.

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

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IDWD100E120D7
PG-TO247-2-STD-NA8.8
MSL: Not applicable to non-SMD packages

Electrical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/Qty	Fail/Qty	Result
High Temperature Reverse Bias JESD22-A108	HTRB	T_j = 175 °C V_{Stress} = 960 V	1000 h	3 × 77	0 / 3 × 77	PASS
High Voltage High Temperature High Humidity Reverse Bias JESD22-A101	HV-H3TRB	Ta = 85 °C RH = 85 % V_{Stress} = 960 V	1000 h	3 × 77	0 / 3 × 77	PASS
Intermittent Operation Life Test MIL-STD 750 / Meth.1037	IOL*	ΔT = 125 K	7500 cyc	3 × 77	0 / 3 × 77	PASS
ESD HBM JEDEC JS-001	HBM	2000 V to < 4000 V	-	-	-	2
ESD CDM JEDEC JS-002	CDM	> 1000 V	-	-	-	C3

Environmental Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/Qty	Fail/Qty	Result
Temperature Cycling JESD22-A104	TC*	Ta_{min} = -55 °C Ta_{max} = +150 °C	1000 cyc	3 × 77	0 / 3 × 77	PASS
Unbiased High Accelerated Stress Test JESD22-A118	UHAST*	Ta = 130 °C RH = 85 %	96 h	3 × 77	0 / 3 × 77	PASS

Notes:
* For SMD devices reliability stress tests performed after preconditioning test (PC) according to J-STD-020

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Do you have a question about this document?

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Document reference

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Please note that this product is not qualified according to the AEC Q100 or AEC Q101 documents of the Automotive Electronics Council.

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