

Product Qualification Report

ESD188-B1-W0201

Very low insertion loss bi-directional ESD protection device, 1 V, 0.06 pF, 0201

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 target applications and may reference existing qualification results of similar products. Such referencing is justified by the structural similarity of the products.

Qualification Assessment

Fully qualified according to **JEDEC** for **Industrial Applications** and assessed as PASS

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

ESD188-B1-W0201
SG-WLL-2-11
MSL: 1; 260 °C

qualified 2025

Electrical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Electrical Parameter Assessment JESD86	ED	-55 °C ... 150 °C		3 x 50	0 / 150	PASS
High Temperature Reverse Bias JESD22-A108	HTRB	T _a = 150 °C V _{dd} ≥ V _{dd_max}	1000 h	3 x 77	0 / 231	PASS

Environmental Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Pre-conditioning JESD22-A113, J-STD020	PC	Soak acc. MSL 1, 3x reflow, 260 °C		3 x 231	0 / 693	PASS
Temperature Cycling JESD22-A104	TC*	-55 °C to 150 °C	1000 cycles	3 x 77	0 / 231	PASS
Unbiased Highly Accelerated Stress Test JESD22-A118	UHAST*	T _a = 130 °C rh = 85 %	96 h	3 x 77	0 / 231	PASS
High Humidity, High Temperature Bias JESD22-A101	H3TRB*	T _a = 85 °C rh = 85 % VR=Vrmax	1000 h	3 x 77	0 / 231	PASS

Mechanical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Physical Dimensions JESD22-B100	PD			3 x 5	0 / 15	PASS
Solderability J-STD-002	SD			3 x 5	0 / 15	PASS

Notes:

* For SMD devices reliability stress tests performed after preconditioning test (PC) according to JESD22-A113

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Document reference

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