Product Qualification Report

2EDL5013U2D

EiceDRIVER™

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).

2EDL5013U2D
PG-TSNP-12
MSL: 1, 260°C

qualified in April 2024

Electrical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
High Temperature Operating Life JESD22 A108	HTOL	Tj >= 125 °C Vcc = Vcc_max	1000 h	3x77	0/231	PASS
Highly-Accelerated Stress Test JESD22 A110	HAST*	Ta = 110°C RH = 85 % V=Vmax	264 h	3x77	0/231	PASS

Environmental Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Pre-Conditioning JESD22 A113	PC	MSL and 3 x reflow	-	6x77	0/462	PASS
Temperature Cycling JESD22 A104	TC*	-55°C to +150°C	1000 cyc	3x77	0/231	PASS
High Temperature Storage Life JESD22 A103	HTSL	Ta = 150°C	1000 h	3x77	0/231	PASS

Device Characterization and Classifications:
Mechanical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
ESD Human Body Model ANSI/ESDA/JEDEC JS-001	ESD HBM	1000 V	-	-	-	PASS
ESD Charged Device Model ANSI/ESDA/JEDEC JS-002	ESD CDM	1000 V	-	-	-	PASS
Latch-Up JESD78	LU	-	-	-	-	PASS

Notes:
* For SMD devices reliability stress tests performed after pre-conditioning test (PC)

Further abbreviations: MSL - moisture sensitivity level, Qty – quantity, RH – relative humidity, SS – sample size, Ta – ambient temperatur

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Document reference

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