Product Qualification Report

2EDS7165H

Driver IC

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).

2EDS7165H
PG-DSO-16
MSL: 3

qualified 2021

Electrical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Electrical Characterization				3 x 30	0 / 90	PASS
High Temperature Operating Live JESD22 A108	HTOL	T_j = 145°C 5 V / 20 V	1000 h	3 x 77	0 / 231	PASS
ESD (HBM) JS-001	HBM	Class 2 2 kV to <4 kV				PASS
ESD (CDM) JS-002	CDM	Class C2A 500V to <750V				PASS
Latch Up Robustness EIA/JESD 78	LU			1 x 6	0 / 6	PASS

Environmental Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
Pre-conditioning J-STD020 / JESD22 A113	PC	MSL 3 and 3x reflow				PASS
High Temperature Storage Life JESD22 A103	HTSL	150 °C	1000 h	3 x 77	0 / 231	PASS
Temperature Cycling JESD22 A104	TC[1]	-65 °C to +150 °C	500x	3 x 77	0 / 231	PASS
Biased Highly Accelerated Stress Test JESD22 A110	HAST[1]	T_a = 130 °C rh = 85 %	96 h	3 x 77	0 / 231	PASS

Mechanical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots	Fail/Qty	Result
Physical Dimensions JESD22 B100	PD			8		PASS
Solderability JESD22 B102	SD					PASS

[1] With preconditioning according J-STD020 / JESD22 A113

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Document reference
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