Product Qualification Report

CDM10VD-3

Dimming Interface 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).

CDM10VD-3
PG-SOT23-6
MSL: 1; 260°C

qualified in 2017

Electrical Stress Test Results:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
High Temperature Operating Life JESD22 A108	HTOL	Ta = 125°C	1000 h	3x77	0/231	PASS
Temperature Humidity Test (biased) JESD22 A101	THB*	Ta = 85 °C RH = 85 %	1000 h	3x25	0/75	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	-	9x25	0/225	PASS
Temperature Cycling JESD22 A104	TC*	-55°C to +150°C	1000 cyc	3x25	0/75	PASS
Unbiased Highly Accelerated Stress Test JESD22 A118	UHAST*	Ta = 130°C RH = 85%	96 h	3x25	0/75	PASS
High Temperature Storage Life JESD22 A103	HTSL	Ta = 175°C	1000 h	3x25	0/75	PASS

Device Characterization and Classifications:

Test Description	Abbr.	Condition	Duration	Lots/SS	Fail/Qty	Result
ESD Human Body Model JEDEC JS-001	ESD HBM	Class 1C 1000 to < 2000V	-	-	-	PASS
ESD Charged Device Model JESD22 C101	ESD CDM	Class C2 500 to < 1000 V	-	-	-	PASS
Latch-up JESD 78	LU	-	-	-	-	PASS

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

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

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Document reference

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