# Product Qualification Report

# 6EDL7141

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 **Standard Applications** and assessed as PASS

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

# 6EDL7141
# PG-VQFN-48-78
# MSL: 3, 260°C

**qualified before 8/05/2023**

**Electrical Stress Test Results:**

| Test Description | Abbr. | Condition | Duration | Lots/SS | Fail/Qty | Result |
|---|---|---|---|---|---|---|
| High Temperature Operating Life<br>JESD22 A108 | HTOL | Tj ≥ 125°C | 1000 h | 3x77 | 0/231 | PASS |
| Highly Accelerated Stress Test<br>JESD22 A110 | HAST* | Ta = 130°C<br>RH = 85 % | 48 h | 1x25 | 0/25 | PASS3 |

**Environmental Stress Test Results7**

| Test Description | Abbr. | Condition | Duration | Lots/SS | Fail/Qty | Result |
|---|---|---|---|---|---|---|
| Temperature Cycling<br>JESD22 A104 | TC* | -55°C to +150°C | 250 cyc | 3x25 | 0/75 | PASS |
| Unbiased HAST<br>JESD22 A118 | UHAST* | Ta = 130°C<br>RH = 85 % | 96 h | 3x25 | 0/75 | PASS |
| High Temperature Storage Life<br>JESD22 A103 | HTSL | Ta ≥ 150°C | 500 h | 3x25 | 0/75 | PASS |

**Device Characterization and Classifications:**
**Mechanical Stress Test Results:**

| Test Description | Abbr. | Condition | Duration | Lots/SS | Fail/Qty | Result |
|---|---|---|---|---|---|---|
| ESD Human Body Model<br>JESD22 A114 | ESD HBM | Class 2<br>2000 V to < 4000 V | - | - | - | PASS |
| ESD Charged Device Model<br>JESD22 C101 | ESD CDM | Class C3<br>≥ 1000 V | - | - | - | PASS |
| Latch-Up<br>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 temperature

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**Document reference**

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