# Product Qualification Report

# EiceDRIVER™ 2EDB8259K

Dual Channel Isolated Gate-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).

# 2EDB8259K
# LGA 5x5
# MSL: 3; 260 °C

**qualified in 2023**

**Electrical Stress Test Results:**

| Test Description | Abbr. | Condition | Duration | Lots/SS | Fail/Qty | Result |
|---|---|---|---|---|---|---|
| High Temperature Operating Life<br>JESD22 A108 | HTOL | Tj = <150 °C | 1000 h | 3 x 77 | 0/231 | PASS |
| Biased HAST<br>JESD22 A110 | HAST* | Ta = 110 °C<br>RH = 85 % | 264 h | 3 x 77 | 0/231 | PASS |
| 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 | - | - | 6 | 0 | PASS |

**Environmental Stress Test Results:**

| Test Description | Abbr. | Condition | Duration | Lots/SS | Fail/Qty | Result |
|---|---|---|---|---|---|---|
| Pre-Conditioning<br>JESD22 A113 | PC | MSL3 and 3 x reflow 260 °C | - | | | PASS |
| Temperature Cycling<br>JESD22 A104 | TC* | -55°C to +150°C | 1000 cyc | 3 x 77 | 0/231 | PASS |
| High Temperature Storage Life<br>JESD22 A103 | HTSL | Ta = 150°C | 1000 h | 3 x 77 | 0/231 | 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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**Do you have a question about this document?**

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**Document reference**

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