



# BUK9Q34-80L

80 V, 34 mOhm logic level N-channel MOSFET in MLPAK33

9 December 2025

Product data sheet

## 1. General description

Logic level N-channel MOSFET in a small MLPAK33-WF package using Trench12 technology. This product has been designed and qualified to meet AEC-Q101 requirements delivering high performance and endurance.

## 2. Features and benefits

- Logic-level compatible
- Trench12 MOSFET technology
- Efficient switching with soft body-diode recovery
- Automotive qualified to AEC-Q101 at 175°C
- Side-wettable flanks for robust solder joints and automatic optical inspection

## 3. Applications

- LED lighting
- DC-to-DC conversion
- Solenoid, motor and other load switching
- Circuit protection

## 4. Quick reference data

Table 1. Quick reference data

| Symbol                         | Parameter                        | Conditions                                                                                                                                        |     | Min | Typ | Max | Unit |
|--------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|------|
| $V_{DS}$                       | drain-source voltage             | $25\text{ °C} \leq T_j \leq 175\text{ °C}$                                                                                                        |     | -   | -   | 80  | V    |
| $I_D$                          | drain current                    | $V_{GS} = 10\text{ V}$ ; $T_{mb} = 25\text{ °C}$ ; <a href="#">Fig. 2</a>                                                                         | [1] | -   | -   | 21  | A    |
| $P_{tot}$                      | total power dissipation          | $T_{mb} = 25\text{ °C}$ ; <a href="#">Fig. 1</a>                                                                                                  |     | -   | -   | 32  | W    |
| <b>Static characteristics</b>  |                                  |                                                                                                                                                   |     |     |     |     |      |
| $R_{DS(on)}$                   | drain-source on-state resistance | $V_{GS} = 10\text{ V}$ ; $I_D = 5.5\text{ A}$ ; $T_j = 25\text{ °C}$ ; <a href="#">Fig. 11</a>                                                    |     | -   | 26  | 34  | mΩ   |
| <b>Dynamic characteristics</b> |                                  |                                                                                                                                                   |     |     |     |     |      |
| $Q_{GD}$                       | gate-drain charge                | $I_D = 5.5\text{ A}$ ; $V_{DS} = 40\text{ V}$ ; $V_{GS} = 10\text{ V}$ ; $T_j = 25\text{ °C}$ ; <a href="#">Fig. 13</a> ; <a href="#">Fig. 14</a> |     | -   | 1.5 | -   | nC   |

[1] 21 A continuous current has been successfully demonstrated during application tests. Practically the current will be limited by PCB, thermal design and operating temperature.

5. Pinning information

Table 2. Pinning information

| Pin | Symbol | Description | Simplified outline                                                                                          | Graphic symbol                                                                                |
|-----|--------|-------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1   | S      | source      | <br>MLPAK33-WF (SOT8002-3) | <br>mbb076 |
| 2   | S      | source      |                                                                                                             |                                                                                               |
| 3   | S      | source      |                                                                                                             |                                                                                               |
| 4   | G      | gate        |                                                                                                             |                                                                                               |
| 5   | D      | drain       |                                                                                                             |                                                                                               |
| 6   | D      | drain       |                                                                                                             |                                                                                               |
| 7   | D      | drain       |                                                                                                             |                                                                                               |
| 8   | D      | drain       |                                                                                                             |                                                                                               |

6. Ordering information

Table 3. Ordering information

| Type number | Package    |                                                                                                                                                   |           |
|-------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|             | Name       | Description                                                                                                                                       | Version   |
| BUK9Q34-80L | MLPAK33-WF | plastic thermal enhanced surface mounted package with side-wettable flanks (SWF); mini leads; 8 terminals; pitch 0.65 mm; 3.3 x 3.3 x 0.8 mm body | SOT8002-3 |

7. Marking

Table 4. Marking codes

| Type number | Marking code |
|-------------|--------------|
| BUK9Q34-80L | 7AH          |

8. Limiting values

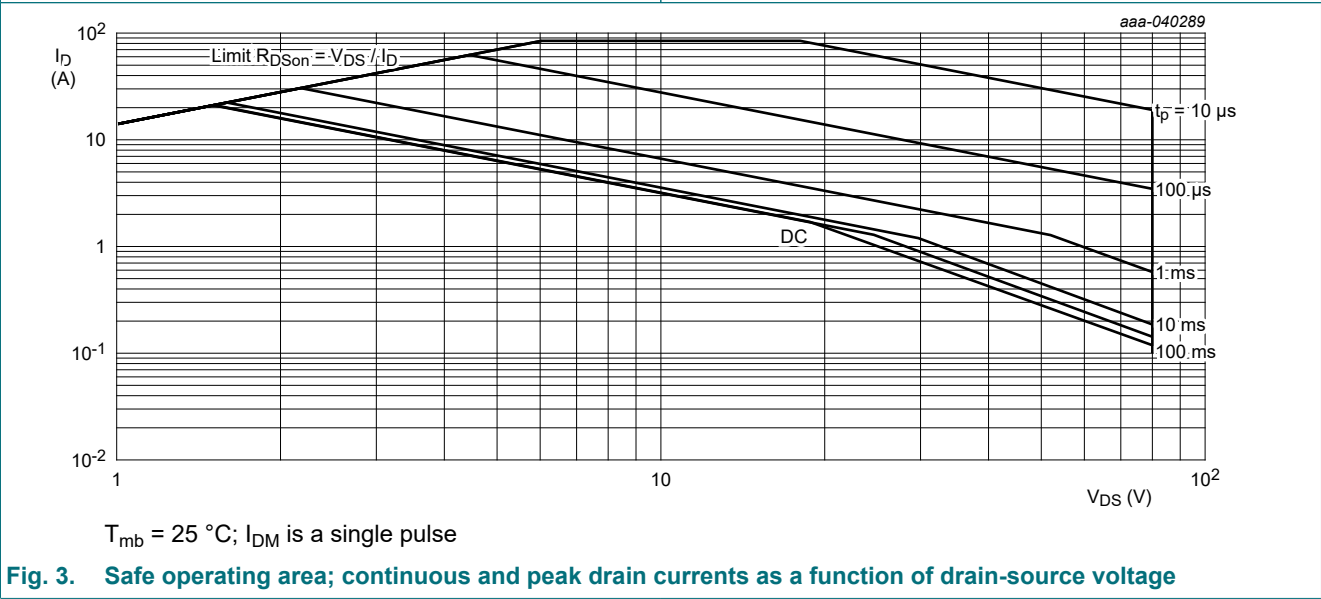
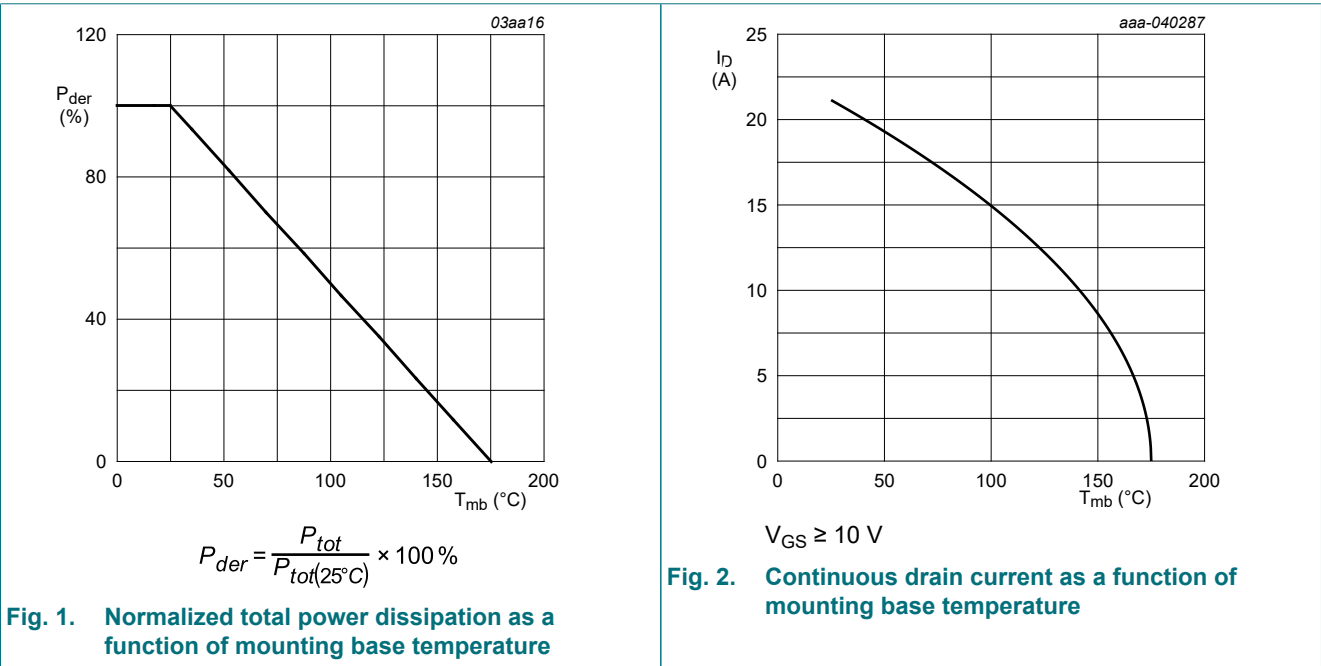
Table 5. Limiting values

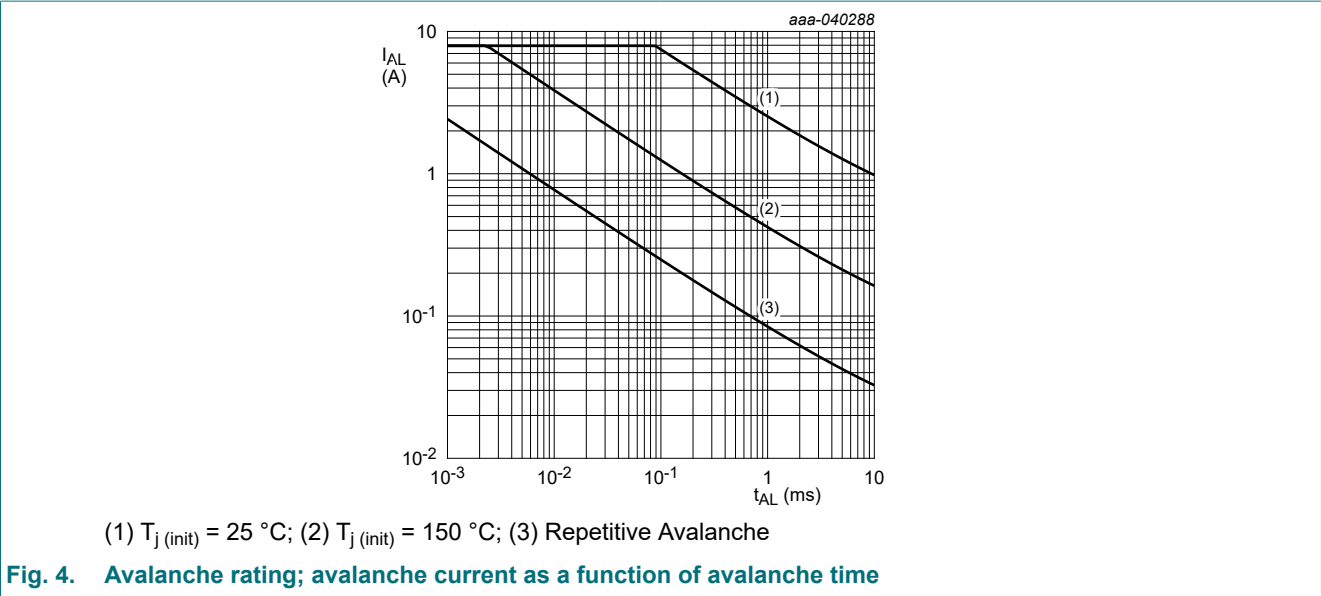
In accordance with the Absolute Maximum Rating System (IEC 60134).  $T_j = 25\text{ }^{\circ}\text{C}$  unless otherwise specified.

| Symbol             | Parameter               | Conditions                                                                                |     | Min | Max | Unit               |
|--------------------|-------------------------|-------------------------------------------------------------------------------------------|-----|-----|-----|--------------------|
| $V_{DS}$           | drain-source voltage    | $25\text{ }^{\circ}\text{C} \leq T_j \leq 175\text{ }^{\circ}\text{C}$                    |     | -   | 80  | V                  |
| $V_{GS}$           | gate-source voltage     |                                                                                           |     | -20 | 20  | V                  |
| $P_{tot}$          | total power dissipation | $T_{mb} = 25\text{ }^{\circ}\text{C}$ ; Fig. 1                                            |     | -   | 32  | W                  |
| $I_D$              | drain current           | $V_{GS} = 10\text{ V}$ ; $T_{mb} = 25\text{ }^{\circ}\text{C}$ ; Fig. 2                   | [1] | -   | 21  | A                  |
|                    |                         | $V_{GS} = 10\text{ V}$ ; $T_{mb} = 100\text{ }^{\circ}\text{C}$ ; Fig. 2                  |     | -   | 15  | A                  |
| $I_{DM}$           | peak drain current      | pulsed; $t_p \leq 10\text{ }\mu\text{s}$ ; $T_{mb} = 25\text{ }^{\circ}\text{C}$ ; Fig. 3 |     | -   | 85  | A                  |
| $T_{stg}$          | storage temperature     |                                                                                           |     | -55 | 175 | $^{\circ}\text{C}$ |
| $T_j$              | junction temperature    |                                                                                           |     | -55 | 175 | $^{\circ}\text{C}$ |
| Source-drain diode |                         |                                                                                           |     |     |     |                    |
| $I_S$              | source current          | $T_{mb} = 25\text{ }^{\circ}\text{C}$                                                     |     | -   | 21  | A                  |
| $I_{SM}$           | peak source current     | pulsed; $t_p \leq 10\text{ }\mu\text{s}$ ; $T_{mb} = 25\text{ }^{\circ}\text{C}$          |     | -   | 85  | A                  |

| Symbol               | Parameter                                    | Conditions                                                                                                                                                                                                                     |                                         | Min | Max  | Unit |
|----------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----|------|------|
| Avalanche ruggedness |                                              |                                                                                                                                                                                                                                |                                         |     |      |      |
| $E_{DS(AL)S}$        | non-repetitive drain-source avalanche energy | $I_D = 7.9\text{ A}$ ; $V_{sup} \leq 80\text{ V}$ ; $R_{GS} = 50\text{ }\Omega$ ; $V_{GS} = 10\text{ V}$ ; $T_{j(\text{init})} = 25\text{ }^\circ\text{C}$ ; unclamped; $t_p = 87\text{ }\mu\text{s}$ ; <a href="#">Fig. 4</a> | <a href="#">[2]</a> <a href="#">[3]</a> | -   | 36.5 | mJ   |
| $I_{AS}$             | non-repetitive avalanche current             | $V_{sup} \leq 80\text{ V}$ ; $V_{GS} = 10\text{ V}$ ; $T_{j(\text{init})} = 25\text{ }^\circ\text{C}$ ; $R_{GS} = 50\text{ }\Omega$ ; <a href="#">Fig. 4</a>                                                                   | <a href="#">[2]</a> <a href="#">[3]</a> | -   | 7.9  | A    |

- [1] 21 A continuous current has been successfully demonstrated during application tests. Practically the current will be limited by PCB, thermal design and operating temperature.
- [2] Single-pulse avalanche rating limited by maximum junction temperature of 175 °C.
- [3] Refer to application note AN10273 for further information.



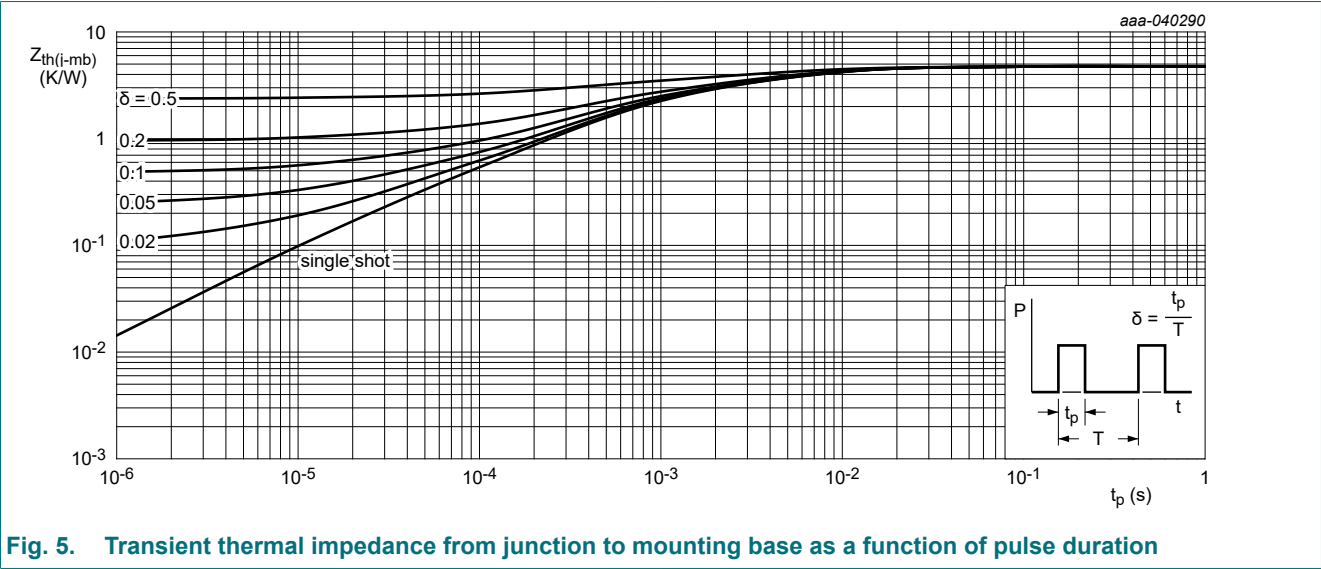


9. Thermal characteristics

Table 6. Thermal characteristics

| Symbol         | Parameter                                         | Conditions |     | Min | Typ | Max | Unit |
|----------------|---------------------------------------------------|------------|-----|-----|-----|-----|------|
| $R_{th(j-mb)}$ | thermal resistance from junction to mounting base | Fig. 5     |     | -   | 3.1 | 4.7 | K/W  |
| $R_{th(j-a)}$  | thermal resistance from junction to ambient       |            | [1] | -   | 40  | -   | K/W  |

[1] Device on 4 layer PCB. Refer to TN00008 for further information.



## 10. Characteristics

Table 7. Characteristics

| Symbol                         | Parameter                        | Conditions                                                                                                                                                 |  | Min  | Typ  | Max  | Unit          |
|--------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|------|------|---------------|
| <b>Static characteristics</b>  |                                  |                                                                                                                                                            |  |      |      |      |               |
| $V_{(BR)DSS}$                  | drain-source breakdown voltage   | $I_D = 250\ \mu\text{A}$ ; $V_{GS} = 0\ \text{V}$ ; $T_j = 25\ ^\circ\text{C}$                                                                             |  | 80   | 89   | -    | V             |
|                                |                                  | $I_D = 250\ \mu\text{A}$ ; $V_{GS} = 0\ \text{V}$ ; $T_j = -40\ ^\circ\text{C}$                                                                            |  | 77   | 86   | -    | V             |
|                                |                                  | $I_D = 250\ \mu\text{A}$ ; $V_{GS} = 0\ \text{V}$ ; $T_j = -55\ ^\circ\text{C}$                                                                            |  | 76   | 85   | -    | V             |
| $V_{GS(th)}$                   | gate-source threshold voltage    | $I_D = 1\ \text{mA}$ ; $V_{DS}=V_{GS}$ ; $T_j = 25\ ^\circ\text{C}$ ; <a href="#">Fig. 9</a> ; <a href="#">Fig. 10</a>                                     |  | 1.45 | 1.7  | 2.15 | V             |
| $I_{DSS}$                      | drain leakage current            | $V_{DS} = 80\ \text{V}$ ; $V_{GS} = 0\ \text{V}$ ; $T_j = 25\ ^\circ\text{C}$                                                                              |  | -    | -    | 1    | $\mu\text{A}$ |
|                                |                                  | $V_{DS} = 80\ \text{V}$ ; $V_{GS} = 0\ \text{V}$ ; $T_j = 125\ ^\circ\text{C}$                                                                             |  | -    | -    | 20   | $\mu\text{A}$ |
|                                |                                  | $V_{DS} = 80\ \text{V}$ ; $V_{GS} = 0\ \text{V}$ ; $T_j = 175\ ^\circ\text{C}$                                                                             |  | -    | -    | 200  | $\mu\text{A}$ |
| $I_{GSS}$                      | gate leakage current             | $V_{GS} = 20\ \text{V}$ ; $V_{DS} = 0\ \text{V}$ ; $T_j = 25\ ^\circ\text{C}$                                                                              |  | -    | -    | 100  | nA            |
|                                |                                  | $V_{GS} = -20\ \text{V}$ ; $V_{DS} = 0\ \text{V}$ ; $T_j = 25\ ^\circ\text{C}$                                                                             |  | -    | -    | -100 | nA            |
| $R_{DS(on)}$                   | drain-source on-state resistance | $V_{GS} = 10\ \text{V}$ ; $I_D = 5.5\ \text{A}$ ; $T_j = 25\ ^\circ\text{C}$ ; <a href="#">Fig. 11</a>                                                     |  | -    | 26   | 34   | m $\Omega$    |
|                                |                                  | $V_{GS} = 10\ \text{V}$ ; $I_D = 5.5\ \text{A}$ ; $T_j = 105\ ^\circ\text{C}$ ; <a href="#">Fig. 12</a>                                                    |  | -    | 40   | 52   | m $\Omega$    |
|                                |                                  | $V_{GS} = 10\ \text{V}$ ; $I_D = 5.5\ \text{A}$ ; $T_j = 125\ ^\circ\text{C}$ ; <a href="#">Fig. 12</a>                                                    |  | -    | 44   | 58   | m $\Omega$    |
|                                |                                  | $V_{GS} = 10\ \text{V}$ ; $I_D = 5.5\ \text{A}$ ; $T_j = 175\ ^\circ\text{C}$ ; <a href="#">Fig. 12</a>                                                    |  | -    | 55   | 71   | m $\Omega$    |
|                                |                                  | $V_{GS} = 4.5\ \text{V}$ ; $I_D = 4.5\ \text{A}$ ; $T_j = 25\ ^\circ\text{C}$ ; <a href="#">Fig. 11</a>                                                    |  | -    | 35   | 45   | m $\Omega$    |
|                                |                                  | $V_{GS} = 4.5\ \text{V}$ ; $I_D = 4.5\ \text{A}$ ; $T_j = 105\ ^\circ\text{C}$ ; <a href="#">Fig. 12</a>                                                   |  | -    | 54   | 76   | m $\Omega$    |
|                                |                                  | $V_{GS} = 4.5\ \text{V}$ ; $I_D = 4.5\ \text{A}$ ; $T_j = 125\ ^\circ\text{C}$ ; <a href="#">Fig. 12</a>                                                   |  | -    | 56   | 79   | m $\Omega$    |
|                                |                                  | $V_{GS} = 4.5\ \text{V}$ ; $I_D = 4.5\ \text{A}$ ; $T_j = 175\ ^\circ\text{C}$ ; <a href="#">Fig. 12</a>                                                   |  | -    | 70   | 95   | m $\Omega$    |
| $R_G$                          | gate resistance                  | $f = 1\ \text{MHz}$ ; $T_j = 25\ ^\circ\text{C}$                                                                                                           |  | -    | 1.6  | -    | $\Omega$      |
| <b>Dynamic characteristics</b> |                                  |                                                                                                                                                            |  |      |      |      |               |
| $Q_{G(tot)}$                   | total gate charge                | $I_D = 5.5\ \text{A}$ ; $V_{DS} = 40\ \text{V}$ ; $V_{GS} = 10\ \text{V}$ ; $T_j = 25\ ^\circ\text{C}$ ; <a href="#">Fig. 13</a> ; <a href="#">Fig. 14</a> |  | -    | 15   | 23   | nC            |
|                                |                                  | $I_D = 5.5\ \text{A}$ ; $V_{DS} = 40\ \text{V}$ ; $V_{GS} = 5\ \text{V}$ ; $T_j = 25\ ^\circ\text{C}$ ; <a href="#">Fig. 13</a> ; <a href="#">Fig. 14</a>  |  | -    | 7.5  | -    | nC            |
| $Q_{GS}$                       | gate-source charge               | $I_D = 5.5\ \text{A}$ ; $V_{DS} = 40\ \text{V}$ ; $V_{GS} = 10\ \text{V}$ ; $T_j = 25\ ^\circ\text{C}$ ; <a href="#">Fig. 13</a> ; <a href="#">Fig. 14</a> |  | -    | 2.9  | -    | nC            |
| $Q_{GD}$                       | gate-drain charge                |                                                                                                                                                            |  | -    | 1.5  | -    | nC            |
| $C_{iss}$                      | input capacitance                | $V_{DS} = 40\ \text{V}$ ; $V_{GS} = 0\ \text{V}$ ; $f = 1\ \text{MHz}$ ; $T_j = 25\ ^\circ\text{C}$ ; <a href="#">Fig. 15</a>                              |  | -    | 1074 | -    | pF            |
| $C_{oss}$                      | output capacitance               |                                                                                                                                                            |  | -    | 174  | -    | pF            |
| $C_{rss}$                      | reverse transfer capacitance     |                                                                                                                                                            |  | -    | 6    | -    | pF            |
| $t_{d(on)}$                    | turn-on delay time               | $V_{DS} = 40\ \text{V}$ ; $R_L = 8\ \Omega$ ; $V_{GS} = 10\ \text{V}$ ; $R_{G(ext)} = 5\ \Omega$ ; $T_j = 25\ ^\circ\text{C}$                              |  | -    | 4    | -    | ns            |
| $t_r$                          | rise time                        |                                                                                                                                                            |  | -    | 3    | -    | ns            |
| $t_{d(off)}$                   | turn-off delay time              |                                                                                                                                                            |  | -    | 15   | -    | ns            |
| $t_f$                          | fall time                        |                                                                                                                                                            |  | -    | 3    | -    | ns            |

| Symbol             | Parameter             | Conditions                                                                                                  | Min | Typ  | Max | Unit |
|--------------------|-----------------------|-------------------------------------------------------------------------------------------------------------|-----|------|-----|------|
| Source-drain diode |                       |                                                                                                             |     |      |     |      |
| $V_{SD}$           | source-drain voltage  | $I_S = 1.7\text{ A}$ ; $V_{GS} = 0\text{ V}$ ; $T_j = 25\text{ }^{\circ}\text{C}$ ; <a href="#">Fig. 16</a> | -   | 0.78 | 1   | V    |
| $t_{rr}$           | reverse recovery time | $I_S = 2.5\text{ A}$ ; $dI_S/dt = -100\text{ A}/\mu\text{s}$ ;                                              | -   | 21   | -   | ns   |
| $Q_r$              | recovered charge      | $V_{GS} = 0\text{ V}$ ; $V_{DS} = 40\text{ V}$ ; $T_j = 25\text{ }^{\circ}\text{C}$                         | -   | 13   | -   | nC   |

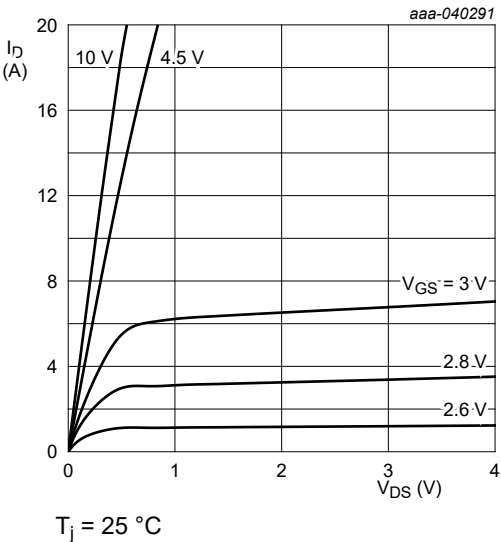


Fig. 6. Output characteristics; drain current as a function of drain-source voltage; typical values

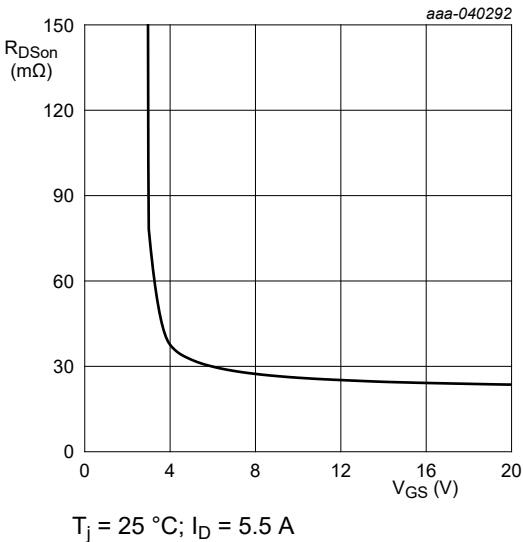


Fig. 7. Drain-source on-state resistance as a function of gate-source voltage; typical values

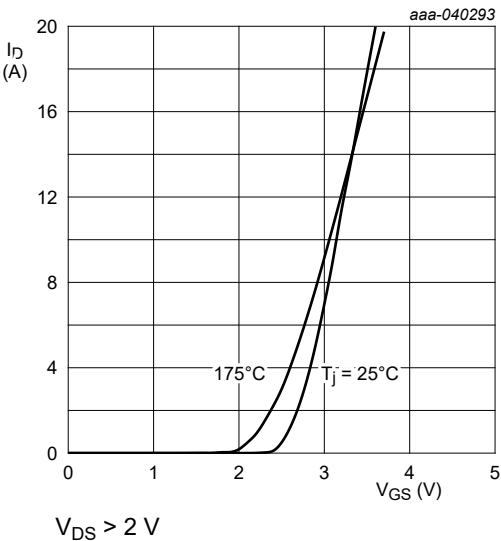


Fig. 8. Transfer characteristics; drain current as a function of gate-source voltage; typical values

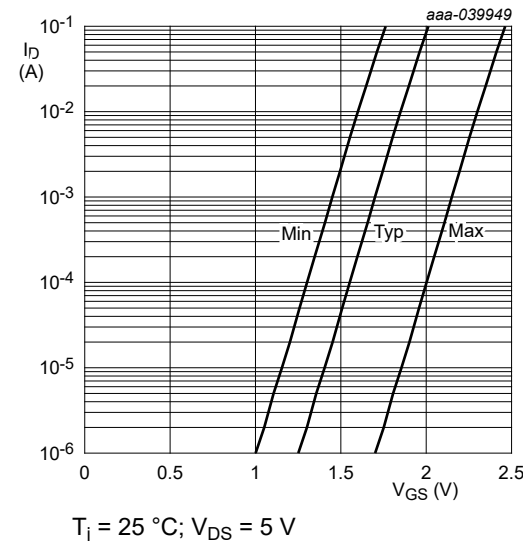


Fig. 9. Sub-threshold drain current as a function of gate-source voltage



Fig. 10. Gate-source threshold voltage as a function of junction temperature

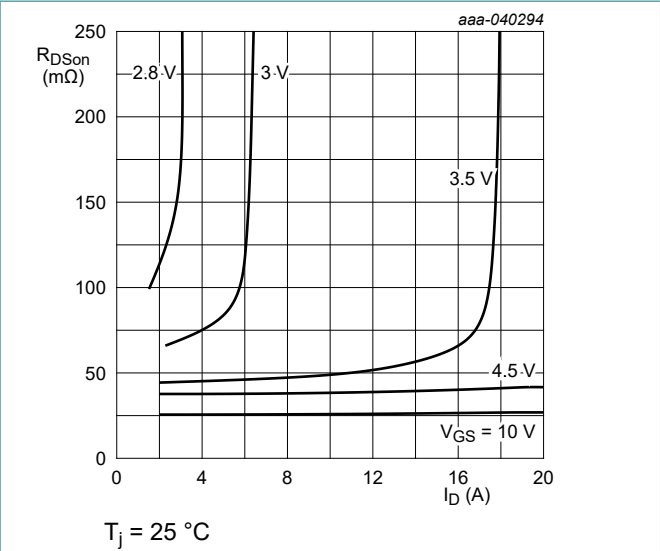


Fig. 11. Drain-source on-state resistance as a function of drain current; typical values

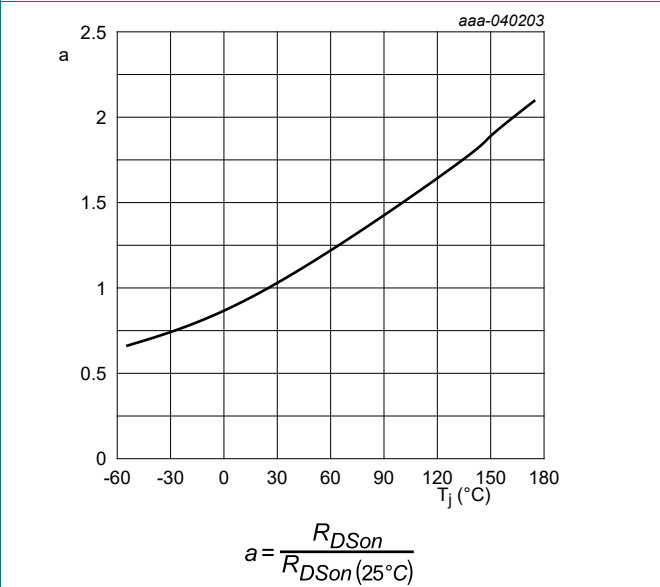


Fig. 12. Normalized drain-source on-state resistance factor as a function of junction temperature

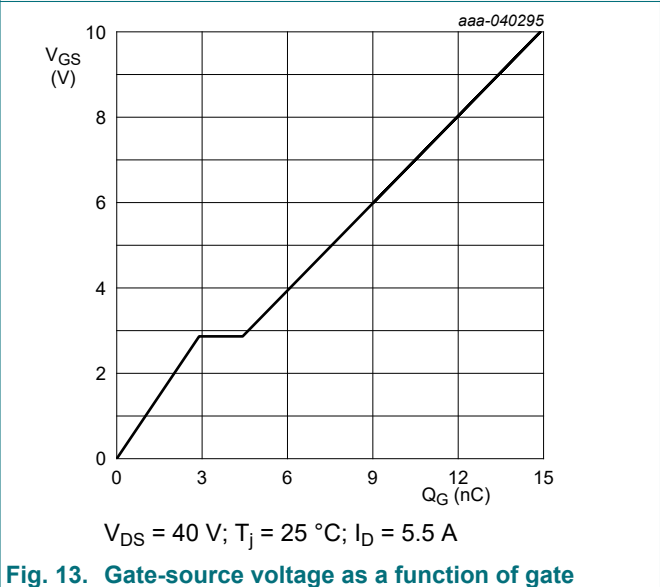


Fig. 13. Gate-source voltage as a function of gate charge; typical values



Fig. 14. Gate charge waveform definitions

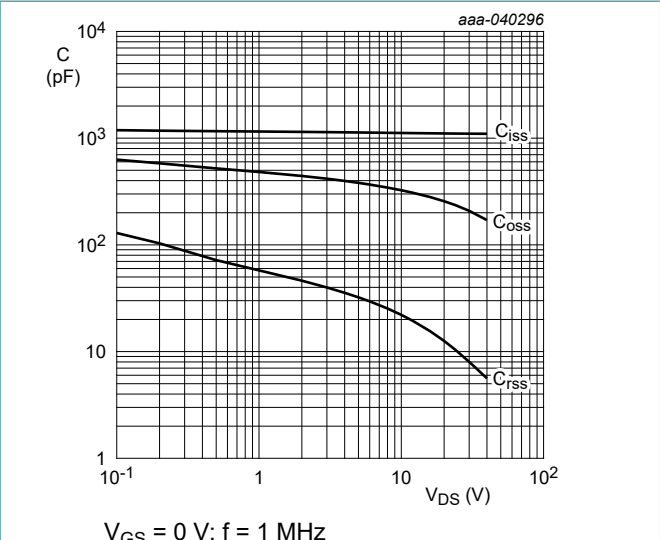


Fig. 15. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

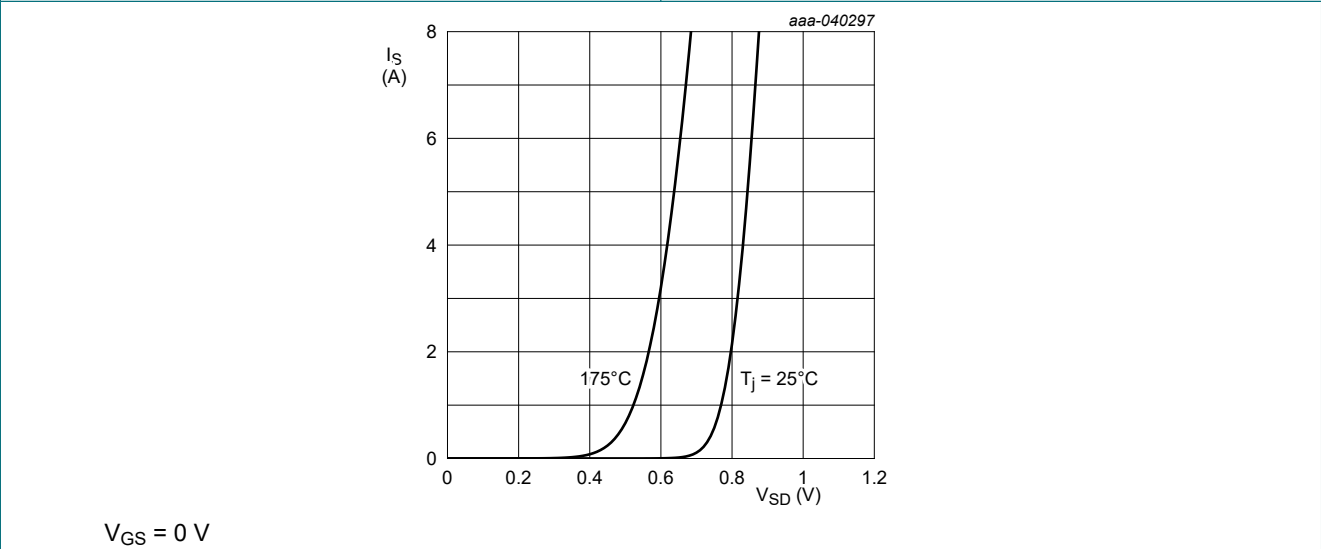


Fig. 16. Source-drain (diode forward) current as a function of source-drain (diode forward) voltage; typical values

11. Package outline

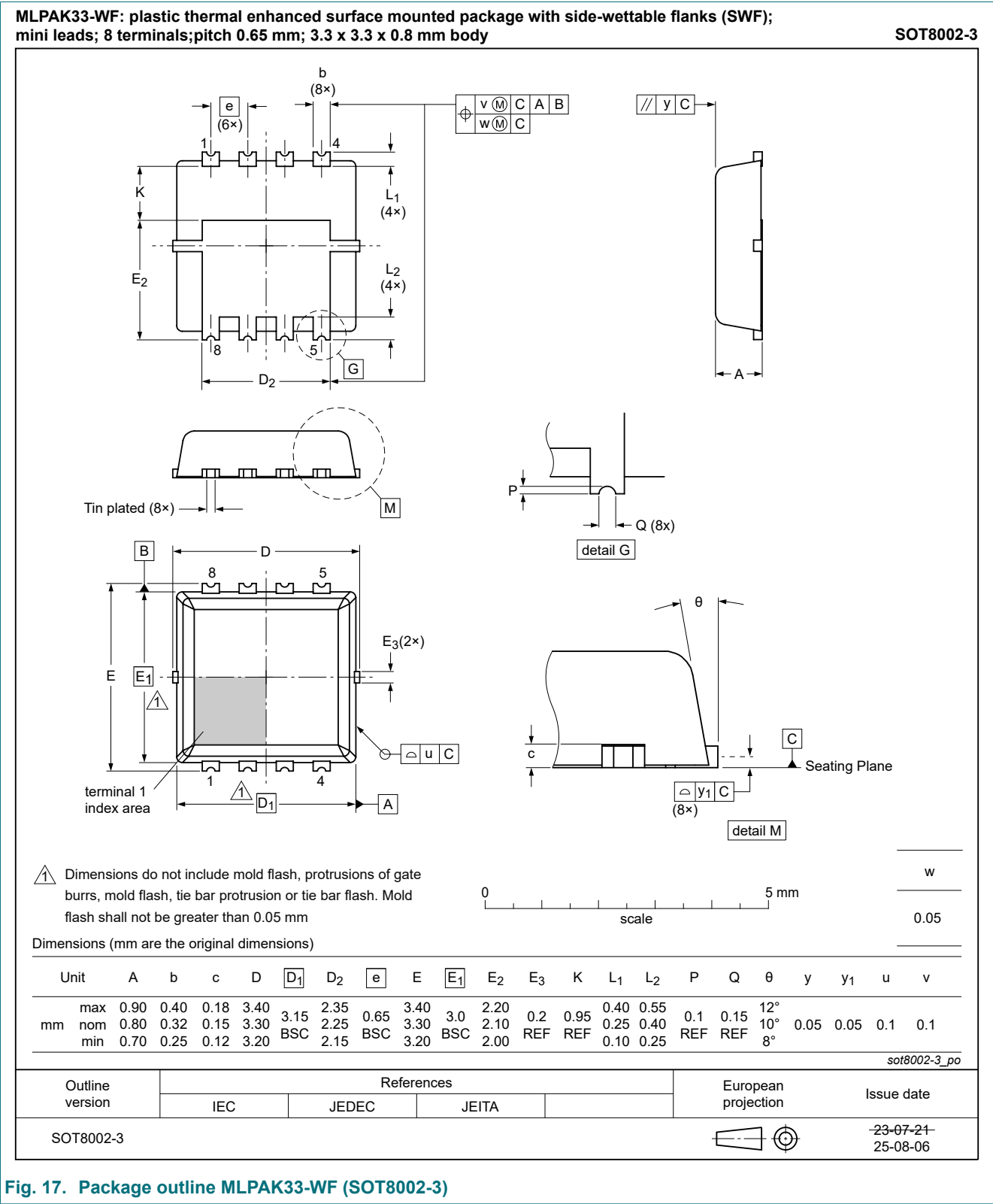
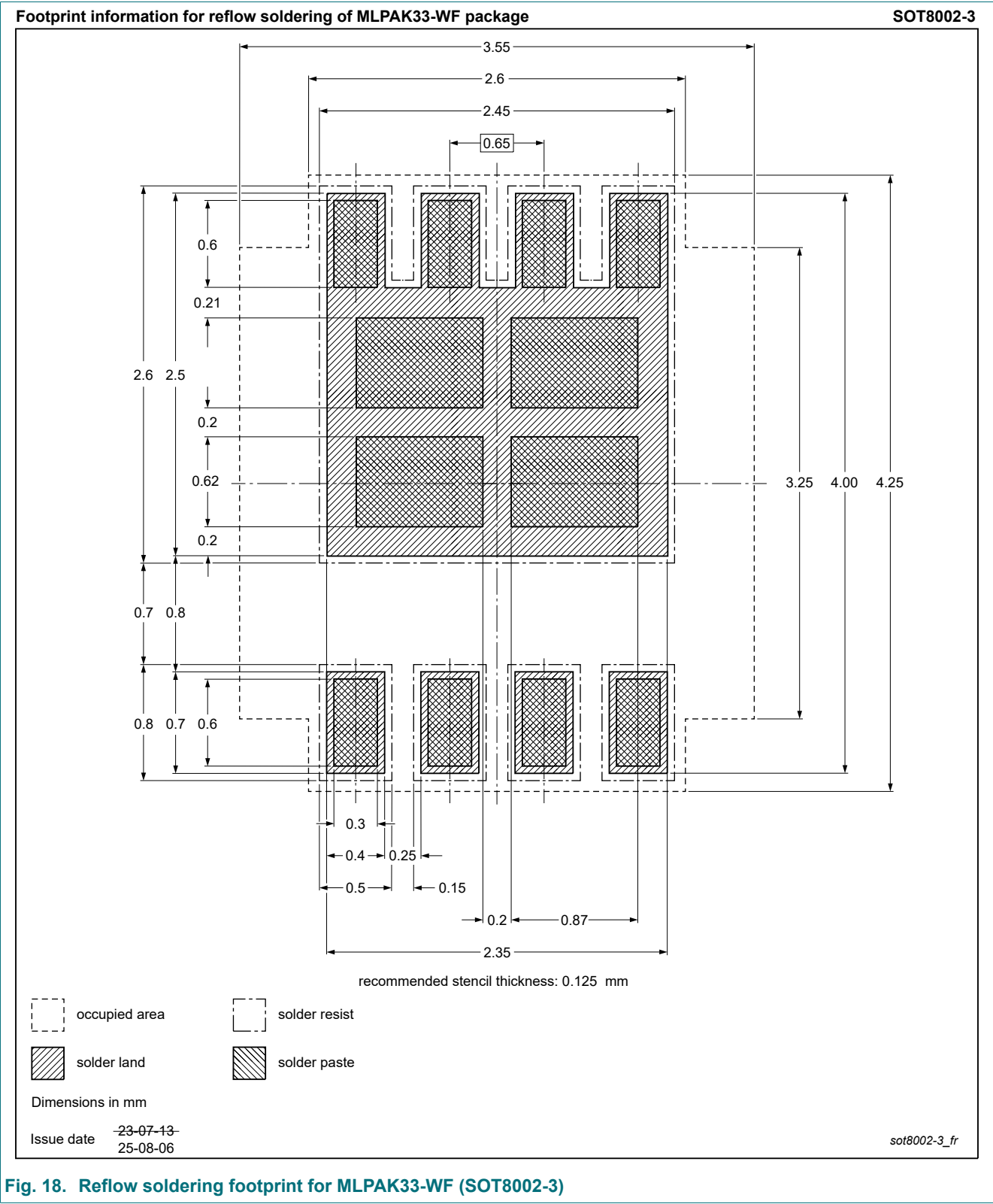


Fig. 17. Package outline MLPAK33-WF (SOT8002-3)

12. Soldering



### 13. Legal information

Data sheet status

| Document status<br>[1][2]      | Product status [3] | Definition                                                                            |
|--------------------------------|--------------------|---------------------------------------------------------------------------------------|
| Objective [short] data sheet   | Development        | This document contains data from the objective specification for product development. |
| Preliminary [short] data sheet | Qualification      | This document contains data from the preliminary specification.                       |
| Product [short] data sheet     | Production         | This document contains the product specification.                                     |

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at <https://www.nexperia.com>.

Definitions

**Draft** — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. Nexperia does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

**Short data sheet** — A short data sheet is an extract from a full data sheet with the same product type number(s) and title. A short data sheet is intended for quick reference only and should not be relied upon to contain detailed and full information. For detailed and full information see the relevant full data sheet, which is available on request via the local Nexperia sales office. In case of any inconsistency or conflict with the short data sheet, the full data sheet shall prevail.

**Product specification** — The information and data provided in a Product data sheet shall define the specification of the product as agreed between Nexperia and its customer, unless Nexperia and customer have explicitly agreed otherwise in writing. In no event however, shall an agreement be valid in which the Nexperia product is deemed to offer functions and qualities beyond those described in the Product data sheet.

Disclaimers

**Limited warranty and liability** — Information in this document is believed to be accurate and reliable. However, Nexperia does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. Nexperia takes no responsibility for the content in this document if provided by an information source outside of Nexperia.

In no event shall Nexperia be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, Nexperia's aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms and conditions of commercial sale of Nexperia.

**Right to make changes** — Nexperia reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

**Suitability for use in automotive applications** — This Nexperia product has been qualified for use in automotive applications. Unless otherwise agreed in writing, the product is not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or

equipment, nor in applications where failure or malfunction of an Nexperia product can reasonably be expected to result in personal injury, death or severe property or environmental damage. Nexperia and its suppliers accept no liability for inclusion and/or use of Nexperia products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

**Quick reference data** — The Quick reference data is an extract of the product data given in the Limiting values and Characteristics sections of this document, and as such is not complete, exhaustive or legally binding.

**Applications** — Applications that are described herein for any of these products are for illustrative purposes only. Nexperia makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using Nexperia products, and Nexperia accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the Nexperia product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

Nexperia does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using Nexperia products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). Nexperia does not accept any liability in this respect.

**Limiting values** — Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

**Terms and conditions of commercial sale** — Nexperia products are sold subject to the general terms and conditions of commercial sale, as published at <http://www.nexperia.com/profile/terms>, unless otherwise agreed in a valid written individual agreement. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. Nexperia hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of Nexperia products by customer.

**No offer to sell or license** — Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

**Export control** — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

**Translations** — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

Contents

1. General description..... 1

2. Features and benefits..... 1

3. Applications..... 1

4. Quick reference data..... 1

5. Pinning information.....2

6. Ordering information.....2

7. Marking.....2

8. Limiting values..... 2

9. Thermal characteristics..... 4

10. Characteristics..... 5

11. Package outline..... 9

12. Soldering..... 10

13. Legal information.....11

© Nexperia B.V. 2025. All rights reserved

For more information, please visit: <http://www.nexperia.com>

For sales office addresses, please send an email to: [salesaddresses@nexperia.com](mailto:salesaddresses@nexperia.com)

Date of release: 9 December 2025