



# BUK9Y22-60EL

Single N-channel 60 V, 15 mOhm logic level MOSFET in LPAK56 using Enhanced SOA technology

7 April 2022

Product data sheet

## 1. General description

Single, logic level, N-channel MOSFET in LPAK56 using Application specific (ASFET) Enhanced SOA technology. This product has been designed and qualified to AEC-Q101 for use in linear mode in airbag applications.

## 2. Features and benefits

- Fully automotive qualified to AEC-Q101 at 175 °C
- Enhanced SOA technology for improved linear mode performance
- LPAK copper clip package technology:
  - High robustness and current handling capability
  - Gull wing leads for easy AOI inspection and exceptional board level reliability

## 3. Applications

- 12 V automotive systems
- Airbag squib voltage regulator MOSFET

## 4. Quick reference data

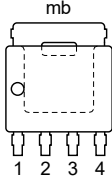
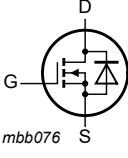
Table 1. Quick reference data

| Symbol                         | Parameter                        | Conditions                                                                                                                                        |     | Min | Typ  | Max  | Unit |
|--------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|------|------|------|
| $V_{DS}$                       | drain-source voltage             | $25\text{ °C} \leq T_j \leq 175\text{ °C}$                                                                                                        |     | -   | -    | 60   | V    |
| $I_D$                          | drain current                    | $V_{GS} = 10\text{ V}$ ; $T_{mb} = 25\text{ °C}$ ; <a href="#">Fig. 2</a>                                                                         | [1] | -   | -    | 50   | A    |
| $P_{tot}$                      | total power dissipation          | $T_{mb} = 25\text{ °C}$ ; <a href="#">Fig. 1</a>                                                                                                  |     | -   | -    | 95   | W    |
| <b>Static characteristics</b>  |                                  |                                                                                                                                                   |     |     |      |      |      |
| $R_{DS(on)}$                   | drain-source on-state resistance | $V_{GS} = 10\text{ V}$ ; $I_D = 10\text{ A}$ ; $T_j = 25\text{ °C}$ ; <a href="#">Fig. 13</a>                                                     |     | 8.3 | 11.8 | 14.8 | mΩ   |
| <b>Dynamic characteristics</b> |                                  |                                                                                                                                                   |     |     |      |      |      |
| $Q_{GD}$                       | gate-drain charge                | $I_D = 10\text{ A}$ ; $V_{DS} = 48\text{ V}$ ; $V_{GS} = 4.5\text{ V}$ ; $T_j = 25\text{ °C}$ ; <a href="#">Fig. 15</a> ; <a href="#">Fig. 16</a> |     | -   | 6.9  | 13.7 | nC   |

[1] 50 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>LPAK56; Power-SO8 (SOT669) | <br>mbb076 |
| 2   | S      | source                            |                                                                                                                 |                                                                                               |
| 3   | S      | source                            |                                                                                                                 |                                                                                               |
| 4   | G      | gate                              |                                                                                                                 |                                                                                               |
| mb  | D      | mounting base; connected to drain |                                                                                                                 |                                                                                               |

## 6. Ordering information

Table 3. Ordering information

| Type number  | Package           |                                                            |         |
|--------------|-------------------|------------------------------------------------------------|---------|
|              | Name              | Description                                                | Version |
| BUK9Y22-60EL | LPAK56; Power-SO8 | plastic, single-ended surface-mounted package; 4 terminals | SOT669  |

## 7. Marking

Table 4. Marking codes

| Type number  | Marking code |
|--------------|--------------|
| BUK9Y22-60EL | 92260EL      |

## 8. Limiting values

Table 5. Limiting values

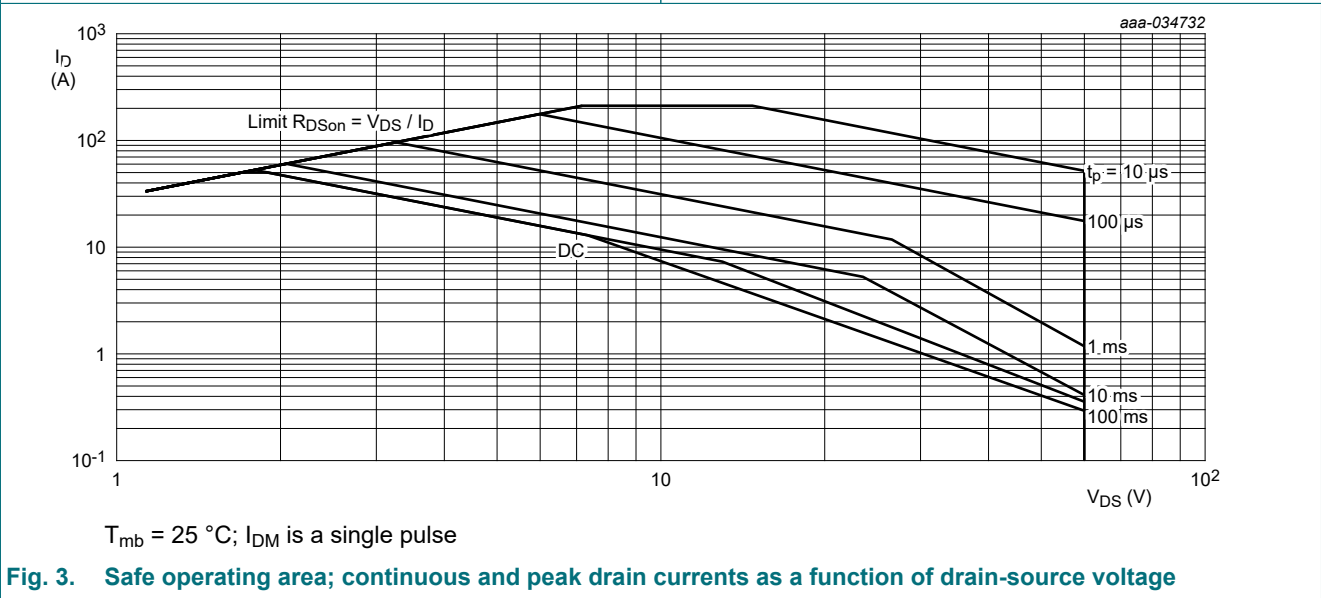
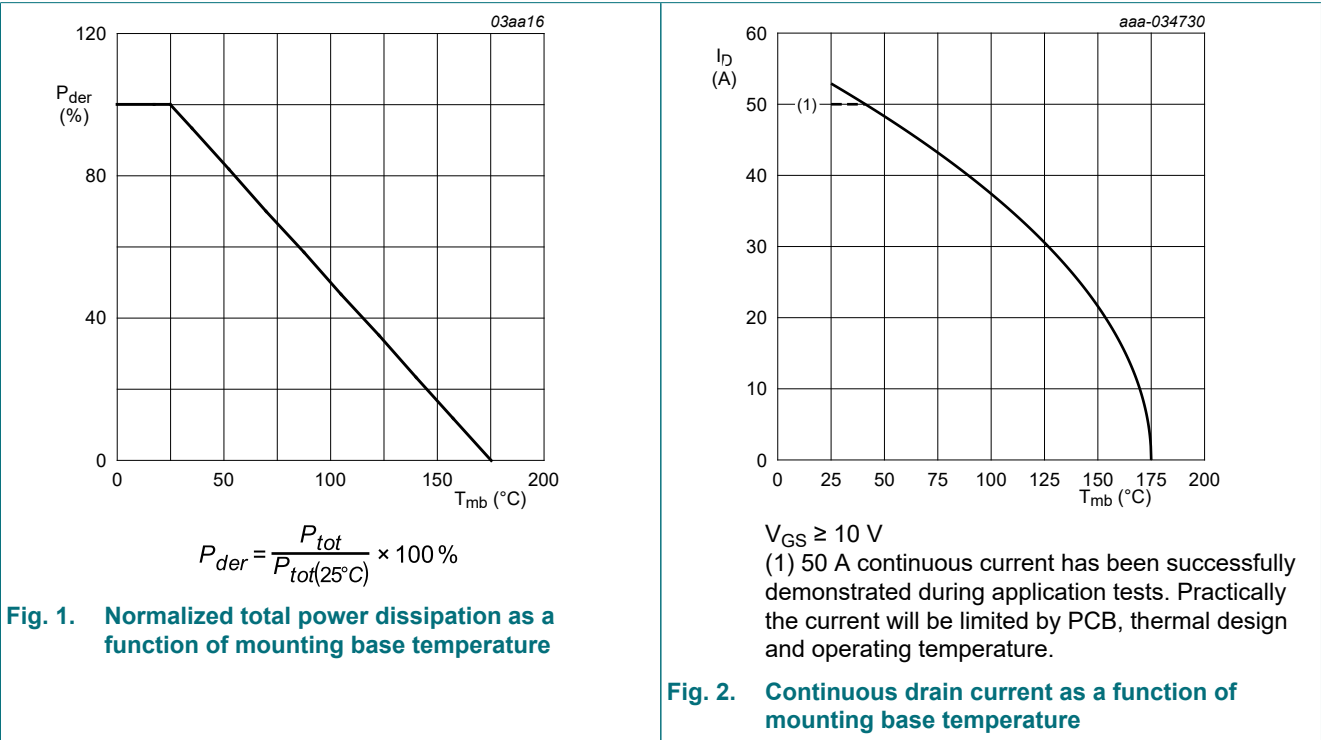
In accordance with the Absolute Maximum Rating System (IEC 60134).  $T_j = 25\text{ °C}$  unless otherwise stated.

| Symbol                      | Parameter                                    | Conditions                                                                                                                                                                                 |         | Min | Max | Unit |
|-----------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|-----|------|
| $V_{DS}$                    | drain-source voltage                         | $25\text{ °C} \leq T_j \leq 175\text{ °C}$                                                                                                                                                 |         | -   | 60  | V    |
| $V_{GS}$                    | gate-source voltage                          | DC; $T_j \leq 175\text{ °C}$                                                                                                                                                               |         | -10 | 10  | V    |
| $P_{tot}$                   | total power dissipation                      | $T_{mb} = 25\text{ °C}$ ; Fig. 1                                                                                                                                                           |         | -   | 95  | W    |
| $I_D$                       | drain current                                | $V_{GS} = 10\text{ V}$ ; $T_{mb} = 25\text{ °C}$ ; Fig. 2                                                                                                                                  | [1]     | -   | 50  | A    |
|                             |                                              | $V_{GS} = 10\text{ V}$ ; $T_{mb} = 100\text{ °C}$ ; Fig. 2                                                                                                                                 |         | -   | 37  | A    |
| $I_{DM}$                    | peak drain current                           | pulsed; $t_p \leq 10\text{ }\mu\text{s}$ ; $T_{mb} = 25\text{ °C}$ ; Fig. 3; Fig. 4                                                                                                        |         | -   | 212 | A    |
| $T_{stg}$                   | storage temperature                          |                                                                                                                                                                                            |         | -55 | 175 | °C   |
| $T_j$                       | junction temperature                         |                                                                                                                                                                                            |         | -55 | 175 | °C   |
| <b>Source-drain diode</b>   |                                              |                                                                                                                                                                                            |         |     |     |      |
| $I_S$                       | source current                               | $T_{mb} = 25\text{ °C}$                                                                                                                                                                    |         | -   | 50  | A    |
| $I_{SM}$                    | peak source current                          | pulsed; $t_p \leq 10\text{ }\mu\text{s}$ ; $T_{mb} = 25\text{ °C}$                                                                                                                         |         | -   | 212 | A    |
| <b>Avalanche ruggedness</b> |                                              |                                                                                                                                                                                            |         |     |     |      |
| $E_{DS(AL)S}$               | non-repetitive drain-source avalanche energy | $I_D = 34\text{ A}$ ; $V_{sup} \leq 60\text{ V}$ ; $R_{GS} = 50\text{ }\Omega$ ; $V_{GS} = 10\text{ V}$ ; $T_{j(init)} = 25\text{ °C}$ ; unclamped; $t_p = 49\text{ }\mu\text{s}$ ; Fig. 5 | [2] [3] | -   | 66  | mJ   |

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| Symbol          | Parameter                        | Conditions                                                                                                    |             | Min | Max | Unit |
|-----------------|----------------------------------|---------------------------------------------------------------------------------------------------------------|-------------|-----|-----|------|
| I <sub>AS</sub> | non-repetitive avalanche current | V <sub>sup</sub> ≤ 60 V; V <sub>GS</sub> = 10 V; T <sub>j(init)</sub> = 25 °C; R <sub>GS</sub> = 50 Ω; Fig. 5 | [2] [3] [4] | -   | 34  | A    |

- [1] 50 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.
- [4] Protected by 100% test.



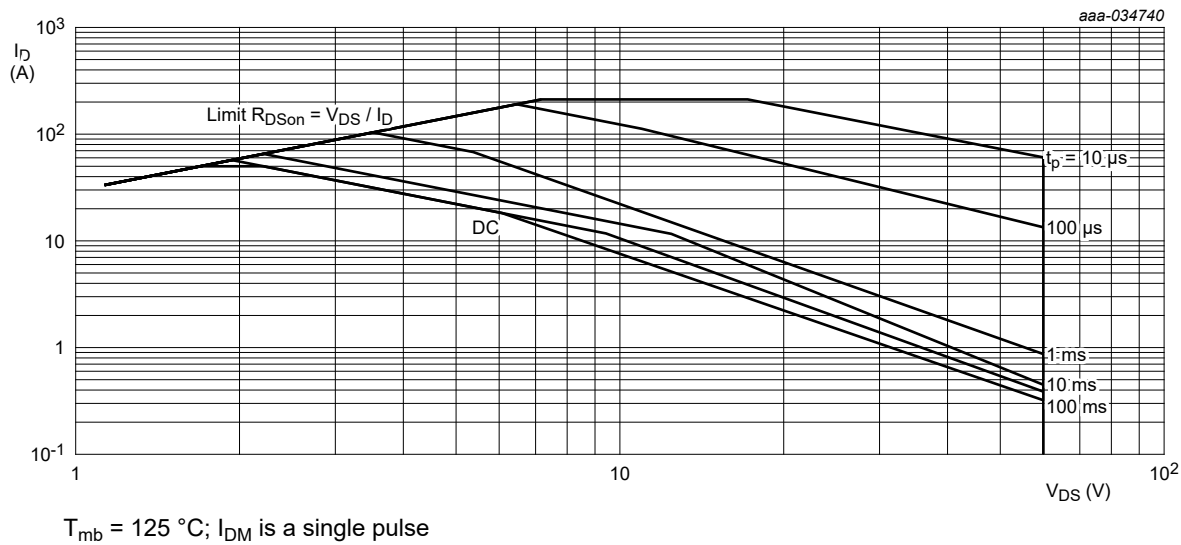


Fig. 4. Safe operating area; continuous and peak drain currents as a function of drain-source voltage

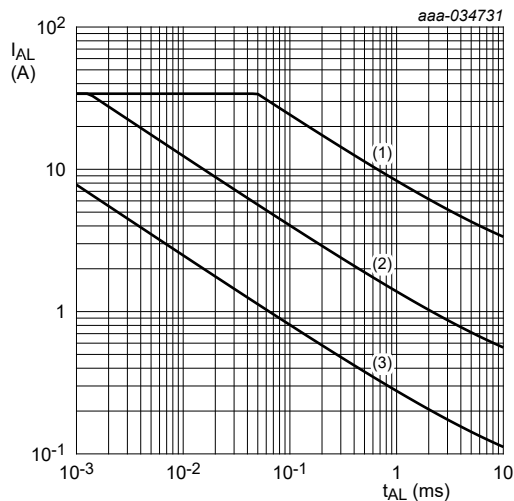


Fig. 5. Avalanche rating; avalanche current as a function of avalanche time

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. 6     | -   | 1.44 | 1.58 | K/W  |

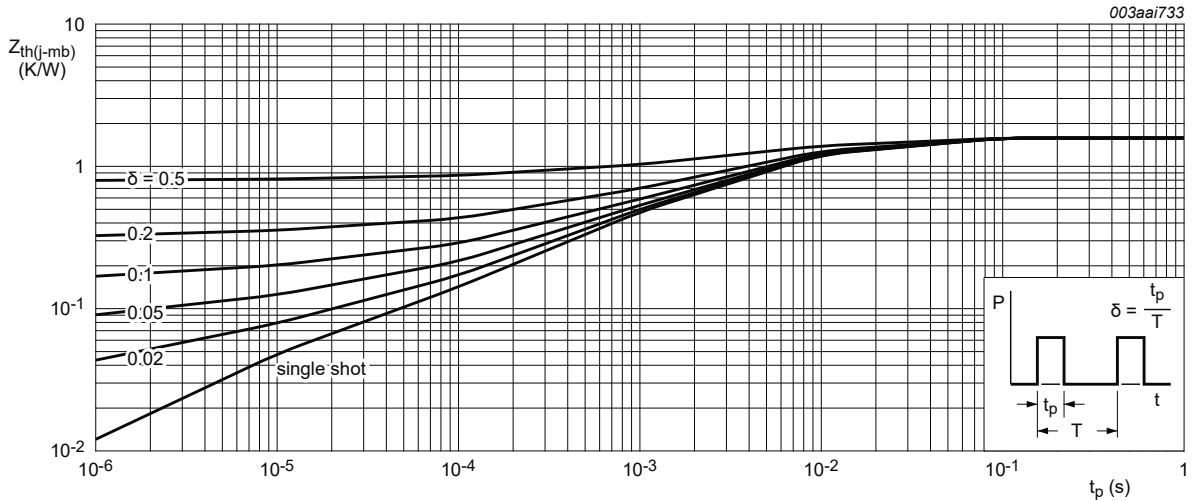


Fig. 6. Transient thermal impedance from junction to mounting base as a function of pulse duration

## 10. Characteristics

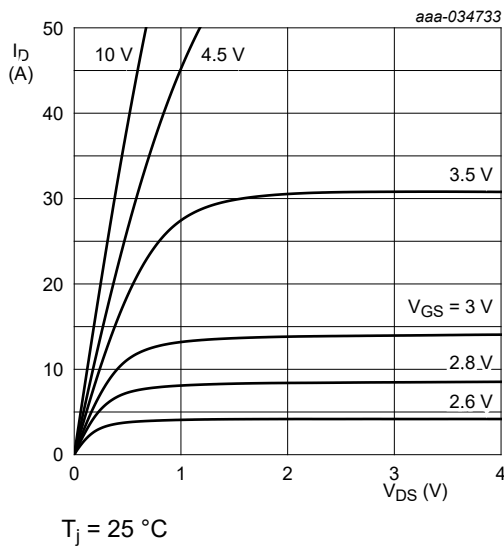
Table 7. Characteristics

| Symbol                        | Parameter                        | Conditions                                                                                         | Min  | Typ  | Max  | Unit       |
|-------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------|------|------|------|------------|
| <b>Static characteristics</b> |                                  |                                                                                                    |      |      |      |            |
| $V_{(BR)DSS}$                 | drain-source breakdown voltage   | $I_D = 250 \mu A; V_{GS} = 0 V; T_j = 25 ^\circ C$                                                 | 60   | 66   | -    | V          |
|                               |                                  | $I_D = 250 \mu A; V_{GS} = 0 V; T_j = -40 ^\circ C$                                                | -    | 63.5 | -    | V          |
|                               |                                  | $I_D = 250 \mu A; V_{GS} = 0 V; T_j = -55 ^\circ C$                                                | 54   | 62.5 | -    | V          |
| $V_{GS(th)}$                  | gate-source threshold voltage    | $I_D = 1 mA; V_{DS}=V_{GS}; T_j = 25 ^\circ C$ ; <a href="#">Fig. 11</a> ; <a href="#">Fig. 12</a> | 1.4  | 1.77 | 2.1  | V          |
|                               |                                  | $I_D = 1 mA; V_{DS}=V_{GS}; T_j = -55 ^\circ C$ ; <a href="#">Fig. 12</a>                          | -    | -    | 2.45 | V          |
|                               |                                  | $I_D = 1 mA; V_{DS}=V_{GS}; T_j = 175 ^\circ C$ ; <a href="#">Fig. 12</a>                          | 0.5  | -    | -    | V          |
| $I_{DSS}$                     | drain leakage current            | $V_{DS} = 60 V; V_{GS} = 0 V; T_j = 25 ^\circ C$                                                   | -    | 0.01 | 1    | $\mu A$    |
|                               |                                  | $V_{DS} = 60 V; V_{GS} = 0 V; T_j = 175 ^\circ C$                                                  | -    | 30   | 500  | $\mu A$    |
| $I_{GSS}$                     | gate leakage current             | $V_{GS} = 10 V; V_{DS} = 0 V; T_j = 25 ^\circ C$                                                   | -    | 2    | 100  | nA         |
|                               |                                  | $V_{GS} = -10 V; V_{DS} = 0 V; T_j = 25 ^\circ C$                                                  | -    | 2    | 100  | nA         |
| $R_{DS(on)}$                  | drain-source on-state resistance | $V_{GS} = 10 V; I_D = 10 A; T_j = 25 ^\circ C$ ; <a href="#">Fig. 13</a>                           | 8.3  | 11.8 | 14.8 | m $\Omega$ |
|                               |                                  | $V_{GS} = 10 V; I_D = 10 A; T_j = 105 ^\circ C$ ; <a href="#">Fig. 14</a>                          | 12.6 | 18.5 | 24   | m $\Omega$ |
|                               |                                  | $V_{GS} = 10 V; I_D = 10 A; T_j = 125 ^\circ C$ ; <a href="#">Fig. 14</a>                          | 13.8 | 20.4 | 26.6 | m $\Omega$ |
|                               |                                  | $V_{GS} = 10 V; I_D = 10 A; T_j = 175 ^\circ C$ ; <a href="#">Fig. 14</a>                          | 17.1 | 25.8 | 33.9 | m $\Omega$ |
|                               |                                  | $V_{GS} = 4.5 V; I_D = 10 A; T_j = 25 ^\circ C$ ; <a href="#">Fig. 13</a>                          | 12   | 17.2 | 23   | m $\Omega$ |
|                               |                                  | $V_{GS} = 4.5 V; I_D = 10 A; T_j = 105 ^\circ C$ ; <a href="#">Fig. 14</a>                         | 17.8 | 26.4 | 36.6 | m $\Omega$ |
|                               |                                  | $V_{GS} = 4.5 V; I_D = 10 A; T_j = 125 ^\circ C$ ; <a href="#">Fig. 14</a>                         | 19.4 | 29   | 40.5 | m $\Omega$ |
|                               |                                  | $V_{GS} = 4.5 V; I_D = 10 A; T_j = 175 ^\circ C$ ; <a href="#">Fig. 14</a>                         | 23.6 | 36   | 51   | m $\Omega$ |

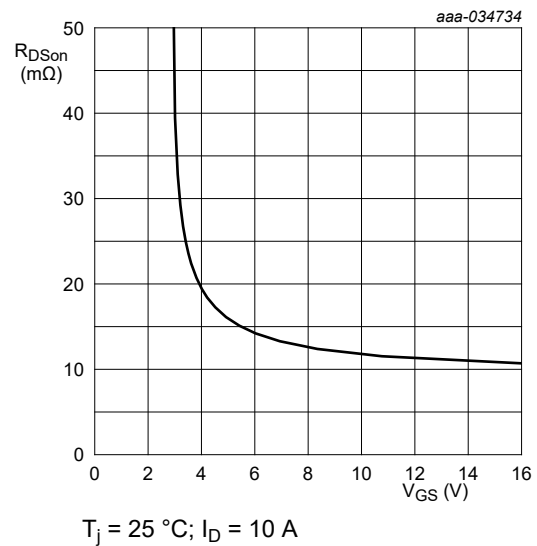
## Single N-channel 60 V, 15 mOhm logic level MOSFET in LPAK56 using Enhanced SOA technology

| Symbol                         | Parameter                    | Conditions                                                                                                                                                                        | Min | Typ  | Max  | Unit     |
|--------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|----------|
| $R_G$                          | gate resistance              | $f = 1 \text{ MHz}$ ; $T_j = 25 \text{ }^\circ\text{C}$                                                                                                                           | -   | 1.81 | -    | $\Omega$ |
| <b>Dynamic characteristics</b> |                              |                                                                                                                                                                                   |     |      |      |          |
| $Q_{G(\text{tot})}$            | total gate charge            | $I_D = 10 \text{ A}$ ; $V_{DS} = 48 \text{ V}$ ; $V_{GS} = 10 \text{ V}$ ;<br>$T_j = 25 \text{ }^\circ\text{C}$ ; <a href="#">Fig. 15</a> ; <a href="#">Fig. 16</a>               | -   | 34   | 48   | nC       |
| $Q_{GS}$                       | gate-source charge           | $I_D = 10 \text{ A}$ ; $V_{DS} = 48 \text{ V}$ ; $V_{GS} = 4.5 \text{ V}$ ;<br>$T_j = 25 \text{ }^\circ\text{C}$ ; <a href="#">Fig. 15</a> ; <a href="#">Fig. 16</a>              | -   | 16.6 | 23.2 | nC       |
| $Q_{GD}$                       | gate-drain charge            |                                                                                                                                                                                   | -   | 4.6  | 7    | nC       |
| $C_{iss}$                      | input capacitance            | $V_{DS} = 25 \text{ V}$ ; $V_{GS} = 0 \text{ V}$ ; $f = 1 \text{ MHz}$ ;<br>$T_j = 25 \text{ }^\circ\text{C}$ ; <a href="#">Fig. 17</a>                                           | -   | 6.9  | 13.7 | nC       |
| $C_{oss}$                      | output capacitance           |                                                                                                                                                                                   | -   | 1852 | 2592 | pF       |
| $C_{rss}$                      | reverse transfer capacitance |                                                                                                                                                                                   | -   | 182  | 218  | pF       |
| $t_{d(\text{on})}$             | turn-on delay time           | $V_{DS} = 48 \text{ V}$ ; $R_L = 5 \Omega$ ; $V_{GS} = 5 \text{ V}$ ;<br>$R_{G(\text{ext})} = 5 \Omega$ ; $T_j = 25 \text{ }^\circ\text{C}$                                       | -   | 96   | 132  | pF       |
| $t_r$                          | rise time                    |                                                                                                                                                                                   | -   | 10   | -    | ns       |
| $t_{d(\text{off})}$            | turn-off delay time          |                                                                                                                                                                                   | -   | 22   | -    | ns       |
| $t_f$                          | fall time                    |                                                                                                                                                                                   | -   | 22   | -    | ns       |
| $g_{fs}$                       | transfer conductance         | $V_{DS} = 8 \text{ V}$ ; $I_D = 10 \text{ A}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; <a href="#">Fig. 9</a>                                                                        | -   | 17   | -    | ns       |
| <b>Source-drain diode</b>      |                              |                                                                                                                                                                                   |     |      |      |          |
| $V_{SD}$                       | source-drain voltage         | $I_S = 10 \text{ A}$ ; $V_{GS} = 0 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; <a href="#">Fig. 18</a>                                                                       | -   | 25.5 | -    | S        |
| $t_{rr}$                       | reverse recovery time        | $I_S = 10 \text{ A}$ ; $dI_S/dt = -100 \text{ A}/\mu\text{s}$ ; $V_{GS} = 0 \text{ V}$ ;<br>$V_{DS} = 30 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; <a href="#">Fig. 19</a> | -   | 0.81 | 1    | V        |
| $Q_r$                          | recovered charge             |                                                                                                                                                                                   | [1] | 26   | -    | ns       |

[1] includes capacitive recovery



**Fig. 7. Output characteristics; drain current as a function of drain-source voltage; typical values**



**Fig. 8. Drain-source on-state resistance as a function of gate-source voltage; typical values**

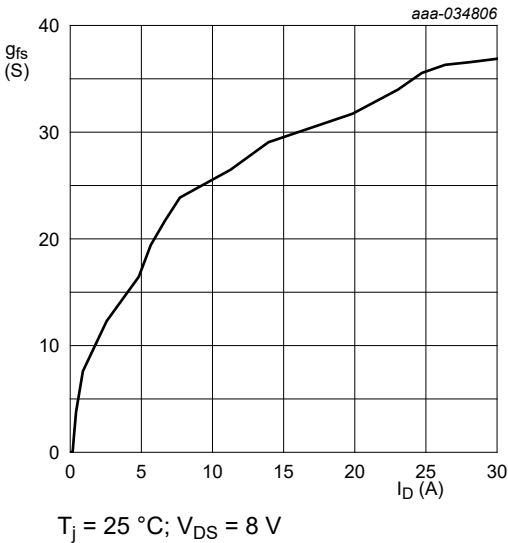


Fig. 9. Forward transconductance as a function of drain current; typical values

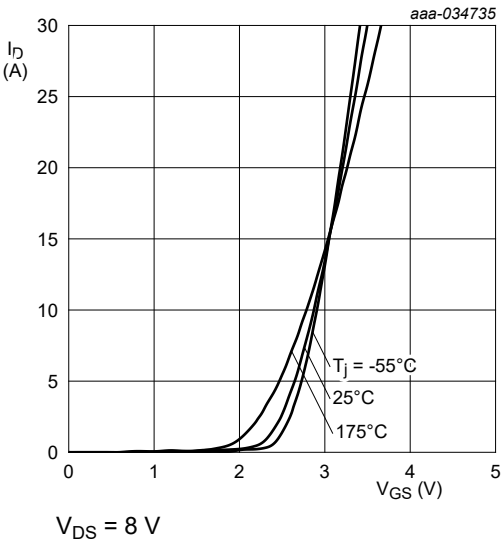


Fig. 10. Transfer characteristics; drain current as a function of gate-source voltage; typical values

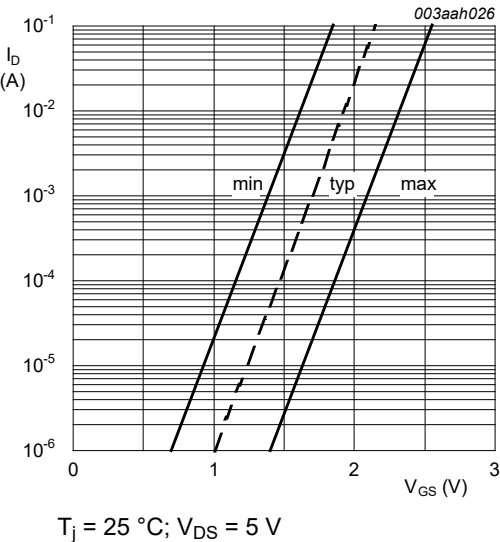


Fig. 11. Sub-threshold drain current as a function of gate-source voltage

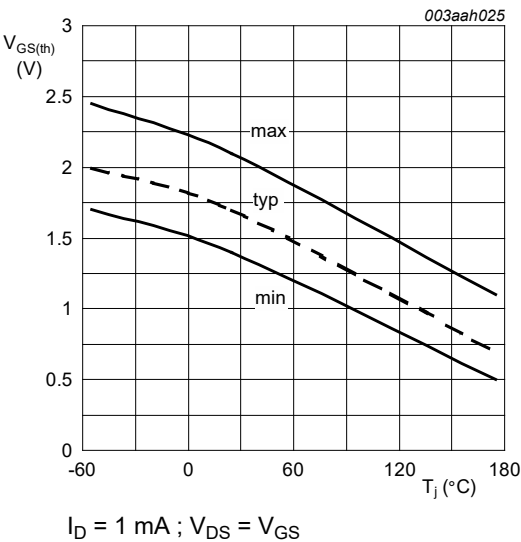
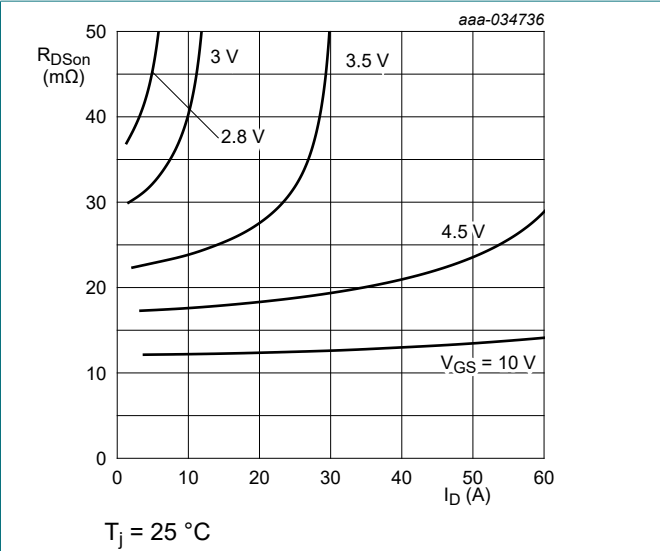
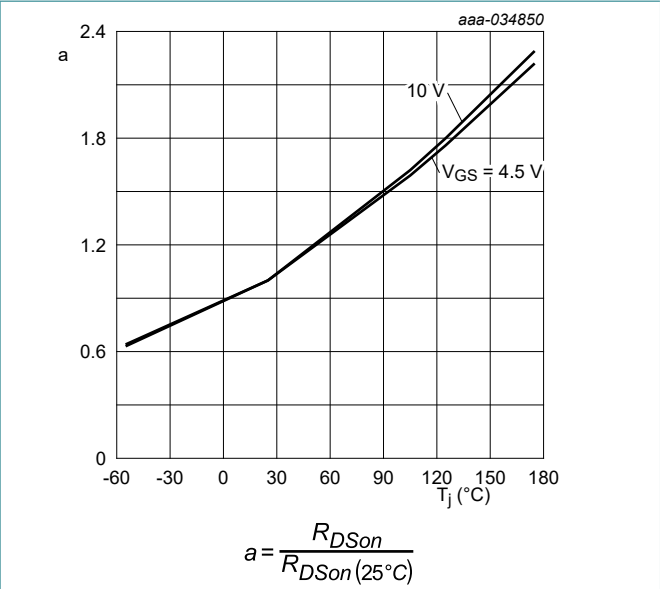


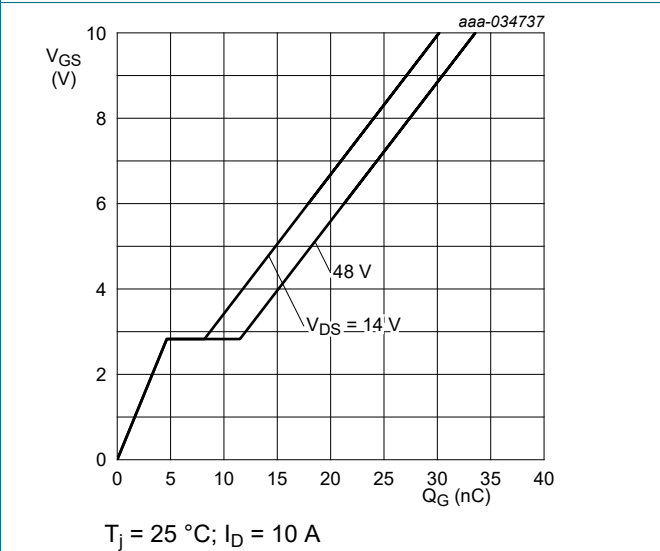
Fig. 12. Gate-source threshold voltage as a function of junction temperature



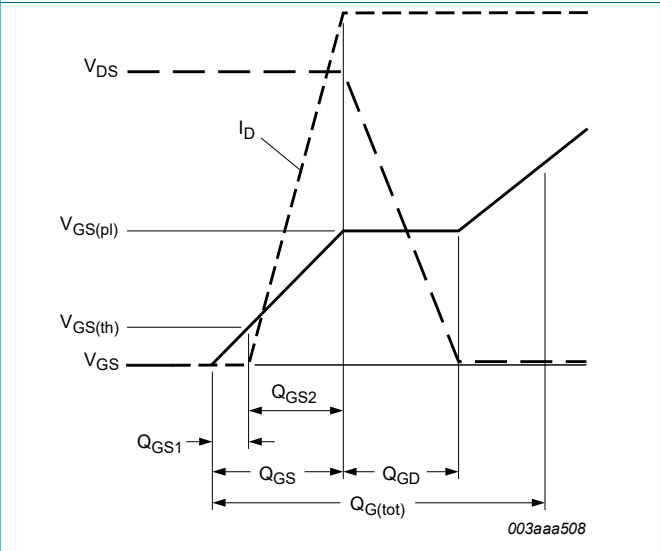
**Fig. 13.** Drain-source on-state resistance as a function of drain current; typical values



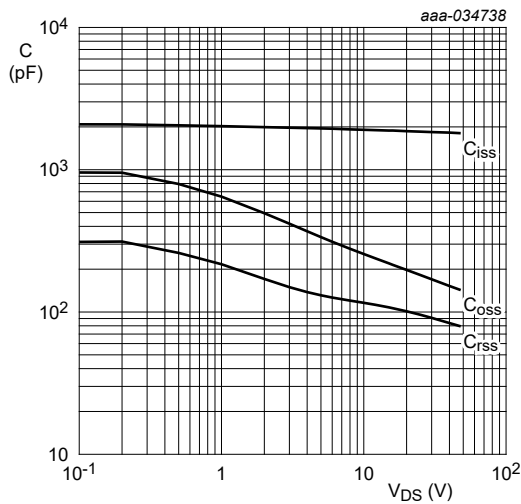
**Fig. 14.** Normalized drain-source on-state resistance factor as a function of junction temperature



**Fig. 15.** Gate-source voltage as a function of gate charge; typical values

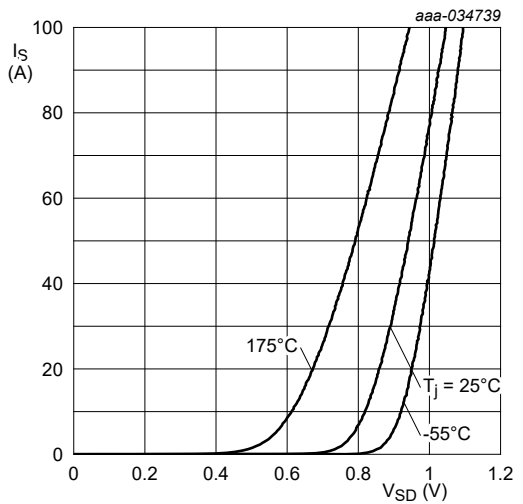


**Fig. 16.** Gate charge waveform definitions



$V_{GS} = 0 \text{ V}$ ;  $f = 1 \text{ MHz}$

Fig. 17. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values



$V_{GS} = 0 \text{ V}$

Fig. 18. Source-drain (diode forward) current as a function of source-drain (diode forward) voltage; typical values

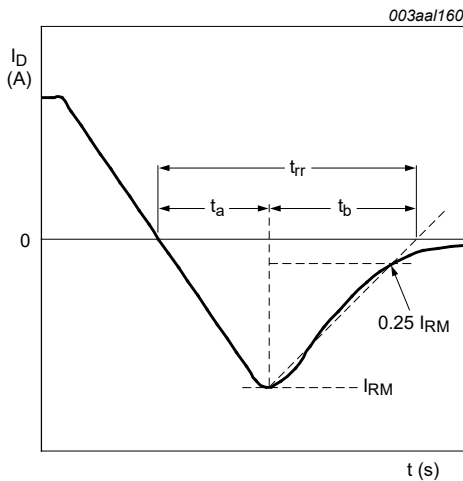


Fig. 19. Reverse recovery timing definition

11. Package outline

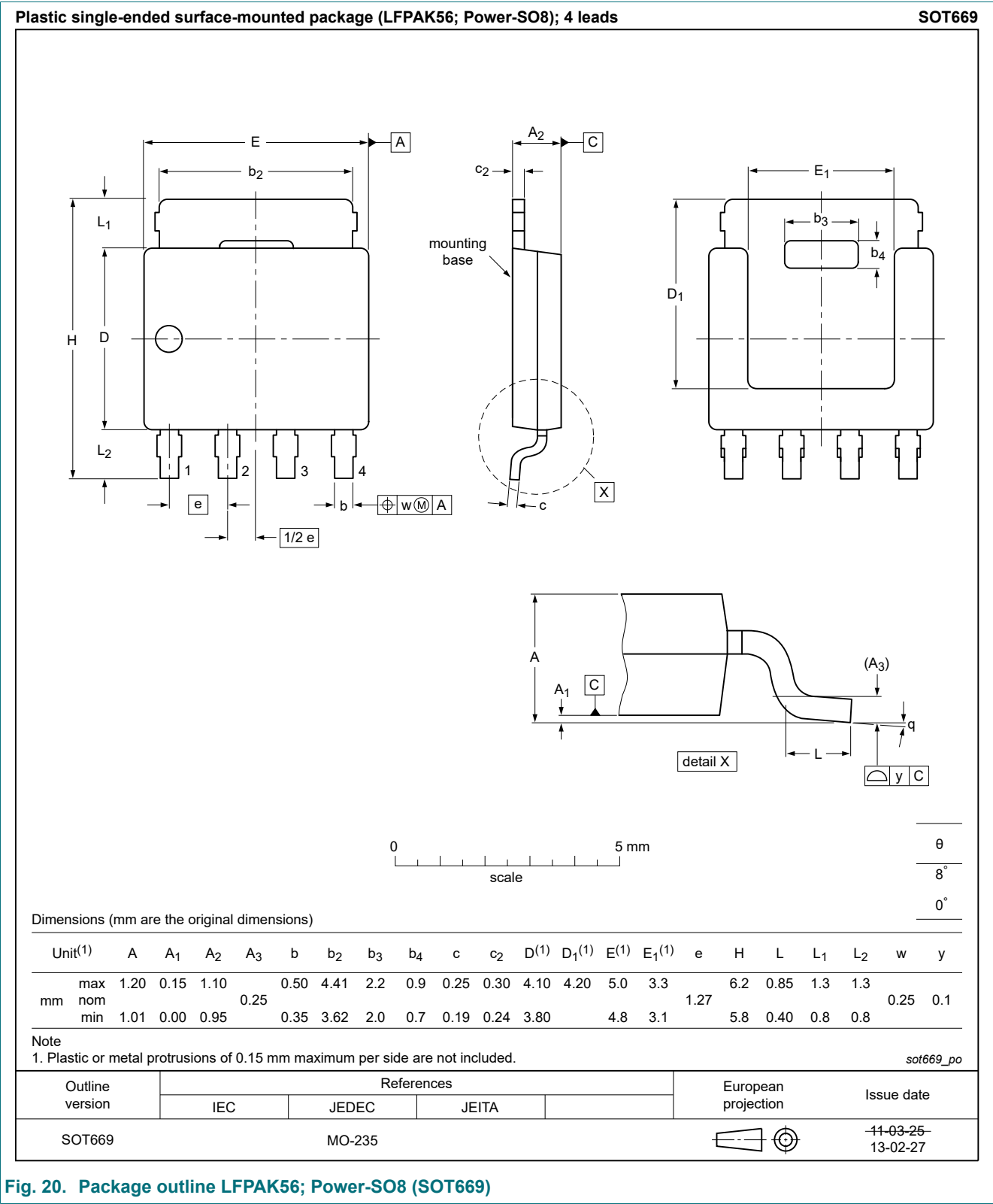


Fig. 20. Package outline LPAK56; Power-SO8 (SOT669)

## 12. 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.                                     |

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