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Kind regards,

Team Nexperia

# **PSMN8R3-40YS**

## N-channel LFPAK 40 V 8.6 m $\Omega$ standard level MOSFET

Rev. 01 — 25 June 2009

**Product data sheet** 

### 1. Product profile

#### 1.1 General description

Standard level N-channel MOSFET in LFPAK package qualified to 175 °C. This product is designed and qualified for use in a wide range of industrial, communications and domestic equipment.

#### 1.2 Features and benefits

- Advanced TrenchMOS provides low RDSon and low gate charge
- High efficiency gains in switching power converters
- Improved mechanical and thermal characteristics
- LFPAK provides maximum power density in a Power SO8 package

### 1.3 Applications

- DC-to-DC convertors
- Lithium-ion battery protection
- Load switching

- Motor control
- Server power supplies

#### 1.4 Quick reference data

Table 1. Quick reference

| Symbol               | Parameter  | Conditions  | Min | Тур | Max | Unit |
|----------------------|--|---|-----|-----|-----|------|
| $V_{\text{DS}}$      | drain-source voltage                               | $T_j \ge 25 \text{ °C}; T_j \le 175 \text{ °C}$   | -   | -   | 40  | V    |
| I <sub>D</sub>       | drain current                                      | $T_{mb}$ = 25 °C; $V_{GS}$ = 10 V;<br>see <u>Figure 1</u>   | -   | -   | 70  | A    |
| P <sub>tot</sub>     | total power dissipation                            | T <sub>mb</sub> = 25 °C; see <u>Figure 2</u>  | -   | -   | 74  | W    |
| Tj                   | junction temperature                               |   | -55 | -   | 175 | °C   |
| Avalance             | he ruggedness                                      |   |     |     |     |      |
| E <sub>DS(AL)S</sub> | non-repetitive<br>drain-source<br>avalanche energy | $V_{GS}$ = 10 V; $T_{j(init)}$ = 25 °C;<br>$I_D$ = 62 A; $V_{sup} \le$ 40 V;<br>unclamped; $R_{GS}$ = 50 $\Omega$ | -   | -   | 33  | mJ   |
| Dynamic              | characteristics                                    |   |     |     |     |      |
| $Q_{GD}$             | gate-drain charge                                  | $V_{GS} = 10 \text{ V}; I_D = 25 \text{ A};$  | -   | 4.5 | -   | nC   |
| $Q_{G(tot)}$         | total gate charge                                  | V <sub>DS</sub> = 20 V; see <u>Figure 14;</u><br>see <u>Figure 15</u>   | -   | 20  | -   | nC   |



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#### N-channel LFPAK 40 V 8.6 mΩ standard level MOSFET

Table 1. Quick reference ...continued

| Symbol              | Parameter     | Conditions  | Min | Тур | Max  | Unit |
|---------------------|---------------|---|-----|-----|------|------|
| Static ch           | aracteristics |   |     |     |      |      |
| on-state resistance |               | $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A};$<br>$T_j = 100 ^{\circ}\text{C}; \text{ see } \frac{\text{Figure } 12}{}$ | -   | -   | 11.6 | mΩ   |
|                     |               | $V_{GS}$ = 10 V; $I_D$ = 15 A;<br>$T_j$ = 25 °C; see <u>Figure 12</u> ;<br>see <u>Figure 13</u>                       | -   | 6.6 | 8.6  | mΩ   |

## **Pinning information**

Table 2. **Pinning information** 

| Pin | Symbol | Description | Simplified outline | Graphic symbol |
|-----|--------|-------------|--------------------|----------------|
| 1   | S      | source      |                    |                |
| 2   | S      | source      | mb                 | D              |
| 3   | S      | source      |                    |                |
| 4   | G      | gate        | [q]                |                |
| mb  | D      | drain       | 1 2 3 4            | mbb076 S       |
|     |        |             | SOT669<br>(LFPAK)  |                |

## **Ordering information**

Table 3. **Ordering information** 

**Product data sheet** 

| Type number  | ype number Package |   |         |  |  |  |  |
|--------------|--------------------|---|---------|--|--|--|--|
|              | Name               | Description   | Version |  |  |  |  |
| PSMN8R3-40YS | LFPAK              | plastic single-ended surface-mounted package (LFPAK); 4 leads | SOT669  |  |  |  |  |

## 4. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

| Symbol               | Parameter  | Conditions  | Min | Max | Unit |
|----------------------|--|---|-----|-----|------|
| $V_{DS}$             | drain-source voltage                               | $T_j \ge 25 \text{ °C}; T_j \le 175 \text{ °C}$   | -   | 40  | V    |
| $V_{DGR}$            | drain-gate voltage                                 | $T_j \ge 25 \text{ °C}; T_j \le 175 \text{ °C}; R_{GS} = 20 \text{ k}\Omega$                              | -   | 40  | V    |
| $V_{GS}$             | gate-source voltage                                |   | -20 | 20  | V    |
| I <sub>D</sub>       | drain current                                      | $V_{GS} = 10 \text{ V}; T_{mb} = 100 \text{ °C}; \text{ see } \frac{\text{Figure 1}}{\text{Model}}$       | -   | 50  | А    |
|                      |  | V <sub>GS</sub> = 10 V; T <sub>mb</sub> = 25 °C; see <u>Figure 1</u>                                      | -   | 70  | А    |
| I <sub>DM</sub>      | peak drain current                                 | $t_p \le 10 \ \mu s$ ; pulsed; $T_{mb} = 25 \ ^{\circ}C$ ; see <u>Figure 3</u>                            | -   | 274 | Α    |
| P <sub>tot</sub>     | total power dissipation                            | T <sub>mb</sub> = 25 °C; see <u>Figure 2</u>  | -   | 74  | W    |
| T <sub>stg</sub>     | storage temperature                                |   | -55 | 175 | °C   |
| Tj                   | junction temperature                               |   | -55 | 175 | °C   |
| T <sub>sld(M)</sub>  | peak soldering<br>temperature                      |   | -   | 260 | °C   |
| Source-dra           | ain diode  |   |     |     |      |
| Is                   | source current                                     | T <sub>mb</sub> = 25 °C   | -   | 70  | А    |
| I <sub>SM</sub>      | peak source current                                | $t_p \le 10 \ \mu s$ ; pulsed; $T_{mb} = 25 \ ^{\circ}C$  | -   | 274 | А    |
| Avalanche            | ruggedness   |   |     |     |      |
| E <sub>DS(AL)S</sub> | non-repetitive<br>drain-source avalanche<br>energy | $V_{GS}$ = 10 V; $T_{j(init)}$ = 25 °C; $I_D$ = 62 A; $V_{sup}$ ≤ 40 V; unclamped; $R_{GS}$ = 50 $\Omega$ | -   | 33  | mJ   |

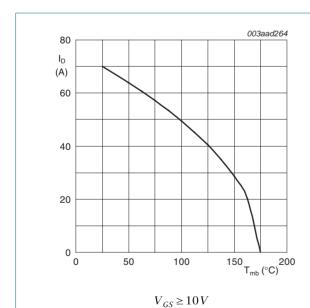


Fig 1. Continuous drain current as a function of mounting base temperature

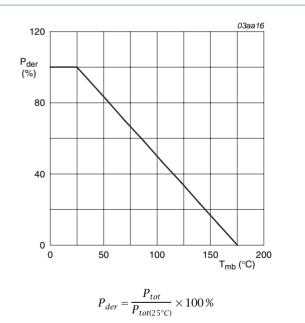
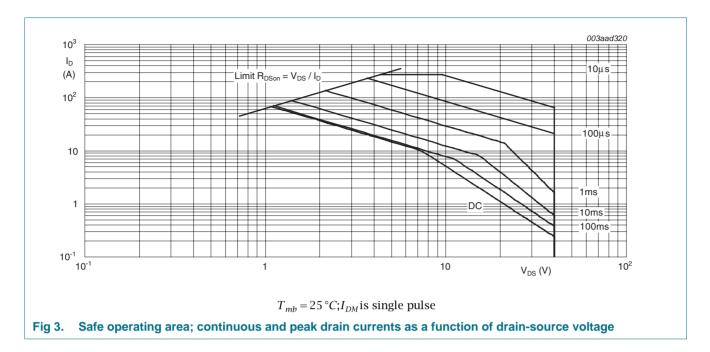


Fig 2. Normalized total power dissipation as a function of mounting base temperature

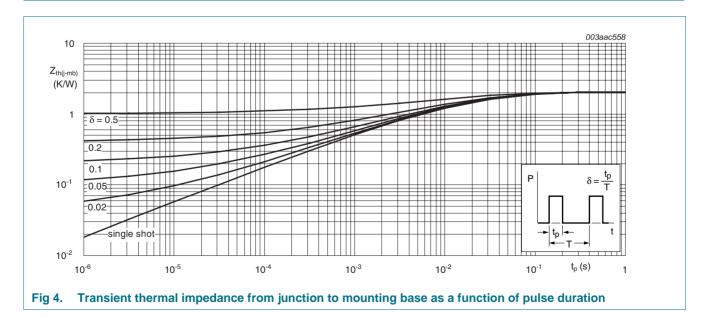
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### 5. Thermal characteristics

Table 5. Thermal characteristics

| Symbol         | Parameter   | Conditions   | Min | Тур  | Max | Unit |
|----------------|---|--------------|-----|------|-----|------|
| $R_{th(j-mb)}$ | thermal resistance from junction to mounting base | see Figure 4 | -   | 1.39 | 2   | K/W  |



### 6. Characteristics

Table 6. Characteristics

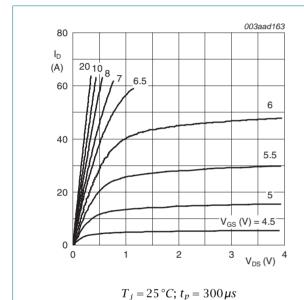
| Table 0.               | Characteristics                      |  |     |      |      |      |  |  |  |
|------------------------|--------------------------------------|--|-----|------|------|------|--|--|--|
| Symbol                 | Parameter                            | Conditions   | Min | Тур  | Max  | Unit |  |  |  |
| Static cha             | racteristics                         |  |     |      |      |      |  |  |  |
| $V_{(BR)DSS}$          | drain-source                         | $I_D = 250 \mu A; V_{GS} = 0 V; T_j = -55 °C$  | 36  | -    | -    | V    |  |  |  |
|                        | breakdown voltage                    | $I_D = 250 \ \mu A; \ V_{GS} = 0 \ V; \ T_j = 25 \ ^{\circ}C$  | 40  | -    | -    | V    |  |  |  |
| $V_{\text{GS(th)}}$    | gate-source threshold voltage        | $I_D = 1$ mA; $V_{DS} = V_{GS}$ ; $T_j = -55$ °C; see <u>Figure 10</u> ; see <u>Figure 11</u>                          | -   | -    | 4.6  | V    |  |  |  |
|                        |                                      | $I_D = 1$ mA; $V_{DS} = V_{GS}$ ; $T_j = 175$ °C;<br>see <u>Figure 10</u> ; see <u>Figure 11</u>                       | 1   | -    | -    | V    |  |  |  |
|                        |                                      | $I_D = 1$ mA; $V_{DS} = V_{GS}$ ; $T_j = 25$ °C;<br>see <u>Figure 10</u> ; see <u>Figure 11</u>                        | 2   | 3    | 4    | V    |  |  |  |
| I <sub>DSS</sub>       | drain leakage current                | $V_{DS} = 40 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$   | -   | -    | 1.5  | μΑ   |  |  |  |
|                        |                                      | $V_{DS} = 40 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 125 \text{ °C}$  | -   | -    | 10   | μΑ   |  |  |  |
| I <sub>GSS</sub>       | gate leakage current                 | $V_{GS} = 20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$   | -   | -    | 100  | nA   |  |  |  |
|                        |                                      | $V_{GS} = -20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$  | -   | -    | 100  | nA   |  |  |  |
| R <sub>DSon</sub>      | drain-source on-state resistance     | $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 100 \text{ °C};$<br>see <u>Figure 12</u>                             | -   | -    | 11.6 | mΩ   |  |  |  |
|                        |                                      | $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 175 ^{\circ}\text{C};$ see <u>Figure 12</u>                          | -   | -    | 16   | mΩ   |  |  |  |
|                        |                                      | $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 25 ^{\circ}\text{C};$<br>see <u>Figure 12</u> ; see <u>Figure 13</u> | -   | 6.6  | 8.6  | mΩ   |  |  |  |
| $R_{G}$                | internal gate resistance (AC)        | f = 1 MHz  | -   | 0.63 | -    | Ω    |  |  |  |
| Dynamic (              | characteristics                      |  |     |      |      |      |  |  |  |
| $Q_{G(tot)} \\$        | total gate charge                    | $I_D = 25 \text{ A}$ ; $V_{DS} = 20 \text{ V}$ ; $V_{GS} = 10 \text{ V}$ ; see <u>Figure 14</u> ; see <u>Figure 15</u> | -   | 20   | -    | nC   |  |  |  |
|                        |                                      | $I_D = 0 \text{ A}; V_{DS} = 0 \text{ V}; V_{GS} = 10 \text{ V}$   | -   | 17   | -    | nC   |  |  |  |
| $Q_{GS}$               | gate-source charge                   | $I_D = 25 \text{ A}; V_{DS} = 20 \text{ V}; V_{GS} = 10 \text{ V};$  | -   | 8    | -    | nC   |  |  |  |
| Q <sub>GS(th)</sub>    | pre-threshold<br>gate-source charge  | see Figure 14; see Figure 15   | -   | 4    | -    | nC   |  |  |  |
| Q <sub>GS(th-pl)</sub> | post-threshold<br>gate-source charge |  | -   | 4    | -    | nC   |  |  |  |
| $Q_{GD}$               | gate-drain charge                    |  | -   | 4.5  | -    | nC   |  |  |  |
| $V_{GS(pl)}$           | gate-source plateau voltage          | $I_D = 25 \text{ A}$ ; $V_{DS} = 20 \text{ V}$ ; see <u>Figure 14</u> ; see <u>Figure 15</u>                           | -   | 5.5  | -    | V    |  |  |  |
| C <sub>iss</sub>       | input capacitance                    | V <sub>DS</sub> = 20 V; V <sub>GS</sub> = 0 V; f = 1 MHz;  | -   | 1215 | -    | pF   |  |  |  |
| C <sub>oss</sub>       | output capacitance                   | T <sub>j</sub> = 25 °C; see <u>Figure 16</u>   | -   | 270  | -    | pF   |  |  |  |
| C <sub>rss</sub>       | reverse transfer capacitance         |  | -   | 146  | -    | pF   |  |  |  |
| t <sub>d(on)</sub>     | turn-on delay time                   | $V_{DS} = 30 \text{ V}; R_L = 1.5 \Omega; V_{GS} = 10 \text{ V};$  | -   | 13   | -    | ns   |  |  |  |
| t <sub>r</sub>         | rise time                            | $R_{G(ext)} = 4.7 \Omega$  | -   | 11   | -    | ns   |  |  |  |
| t <sub>d(off)</sub>    | turn-off delay time                  |  | -   | 21   | -    | ns   |  |  |  |
| t <sub>f</sub>         | fall time                            |  | -   | 6    | -    | ns   |  |  |  |
|                        |                                      |  |     |      |      |      |  |  |  |

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Characteristics ... continued Table 6.

| Symbol          | Parameter             | Conditions   | Min | Тур  | Max | Unit |
|-----------------|-----------------------|--|-----|------|-----|------|
| Source-dr       | ain diode             |  |     |      |     |      |
| $V_{SD}$        | source-drain voltage  | $I_S = 25 \text{ A}; V_{GS} = 0 \text{ V}; T_j = 25 ^{\circ}\text{C};$<br>see <u>Figure 17</u> | -   | 0.84 | 1.2 | V    |
| t <sub>rr</sub> | reverse recovery time | $I_S = 50 \text{ A}$ ; $dI_S/dt = -100 \text{ A/}\mu\text{s}$ ; $V_{GS} = 0 \text{ V}$ ;       | -   | 29   | -   | ns   |
| Q <sub>r</sub>  | recovered charge      | $V_{DS} = 20 \text{ V}$  | -   | 26   | -   | nC   |

[1] Tested to JEDEC standards where applicable.



Output characteristics: drain current as a Fig 5. function of drain-source voltage; typical values

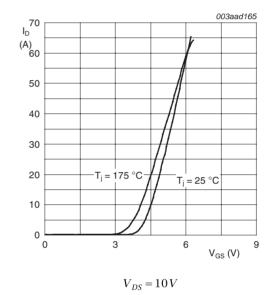
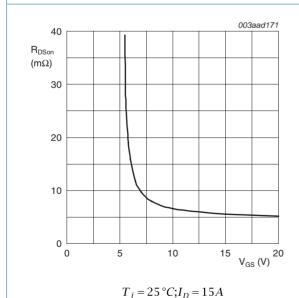
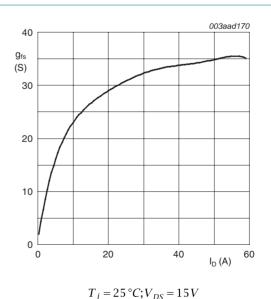


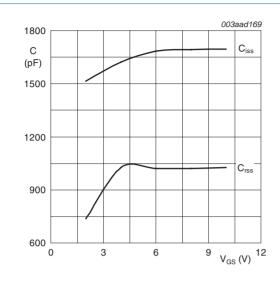
Fig 6. Transfer characteristics: drain current as a function of gate-source voltage; typical values



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

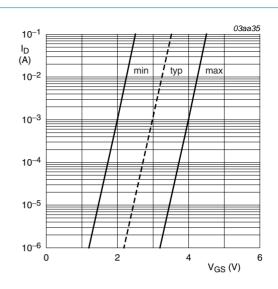


Forward transconductance as a function of Fig 8. drain current; typical values



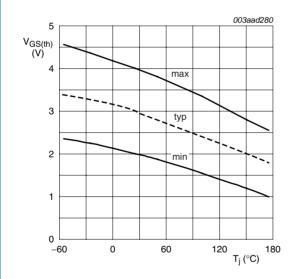
 $V_{DS} = 0V; f = 1MHz$ 

Fig 9. Input and reverse transfer capacitances as a function of gate-source voltage; typical values



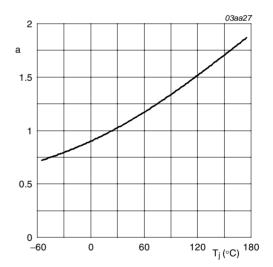
$$T_j = 25$$
 ° $C$ ; $V_{DS} = 5V$ 

Fig 10. Sub-threshold drain current as a function of gate-source voltage



 $I_D = 1 \, mA; V_{DS} = V_{GS}$ 

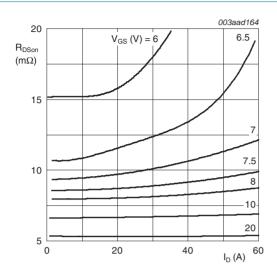
Fig 11. Gate-source threshold voltage as a function of junction temperature



$$a = \frac{R_{DSon}}{R_{DSon(25^{\circ}C)}}$$

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

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 $T_{j}=25\,^{\circ}C;\,t_{p}=300\,\mu s$  Fig 13. Drain-source on-state resistance as a function

of drain current; typical values

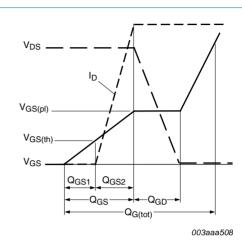


Fig 14. Gate charge waveform definitions

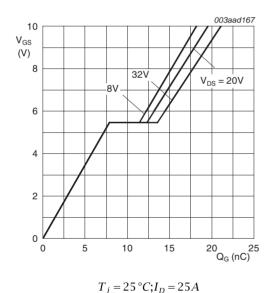


Fig 15. Gate-source voltage as a function of gate charge; typical values

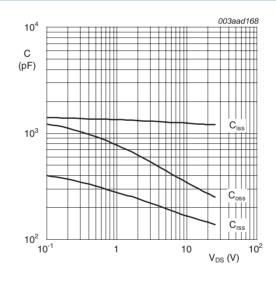


Fig 16. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

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

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**Product data sheet** 

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#### N-channel LFPAK 40 V 8.6 mΩ standard level MOSFET

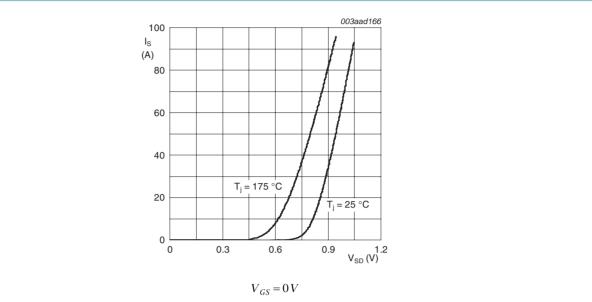
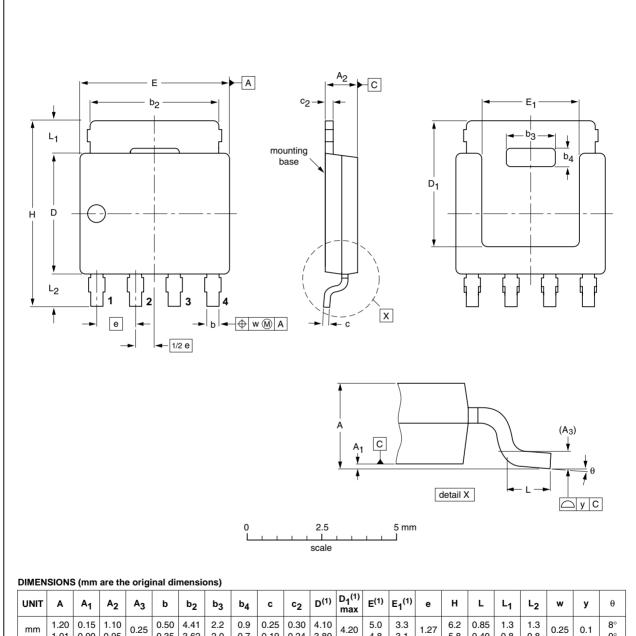


Fig 17. Source (diode forward) current as a function of source-drain (diode forward) voltage; typical values

## **Package outline**

#### Plastic single-ended surface-mounted package (LFPAK); 4 leads

**SOT669** 



| UNIT | Α            | A <sub>1</sub> | A <sub>2</sub> | A <sub>3</sub> | b            | b <sub>2</sub> | b <sub>3</sub> | b <sub>4</sub> | С            | c <sub>2</sub> | D <sup>(1)</sup> | D <sub>1</sub> <sup>(1)</sup><br>max | E <sup>(1)</sup> | E <sub>1</sub> <sup>(1)</sup> | е    | Н          | L            | L <sub>1</sub> | L <sub>2</sub> | w    | у   | θ        |
|------|--------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|--------------|----------------|------------------|--------------------------------------|------------------|-------------------------------|------|------------|--------------|----------------|----------------|------|-----|----------|
| mm   | 1.20<br>1.01 | 0.15<br>0.00   | 1.10<br>0.95   | 0.25           | 0.50<br>0.35 | 4.41<br>3.62   | 2.2<br>2.0     | 0.9<br>0.7     | 0.25<br>0.19 |                | 4.10<br>3.80     | 4.20                                 | 5.0<br>4.8       | 3.3<br>3.1                    | 1.27 | 6.2<br>5.8 | 0.85<br>0.40 | 1.3<br>0.8     | 1.3<br>0.8     | 0.25 | 0.1 | 8°<br>0° |

#### Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

| OUTLINE |     | REFER  | EUROPEAN | ISSUE DATE |            |                                 |
|---------|-----|--------|----------|------------|------------|---------------------------------|
| VERSION | IEC | JEDEC  | JEITA    |            | PROJECTION | ISSUE DATE                      |
| SOT669  |     | MO-235 |          |            |            | <del>04-10-13</del><br>06-03-16 |

Fig 18. Package outline SOT669 (LFPAK)

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PSMN8R3-40YS

#### N-channel LFPAK 40 V 8.6 mΩ standard level MOSFET

## 8. Revision history

#### Table 7. Revision history

| Document ID    | Release date | Data sheet status  | Change notice | Supersedes |
|----------------|--------------|--------------------|---------------|------------|
| PSMN8R3-40YS_1 | 20090625     | Product data sheet | -             | -          |

### 9. Legal information

#### 9.1 Data sheet status

| Document status [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 URL http://www.nxp.com.

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## **PSMN8R3-40YS**

#### N-channel LFPAK 40 V 8.6 mΩ standard level MOSFET

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