## **PSMN016-100YS**

# N-channel 100 V 16.3 m $\Omega$ standard level MOSFET in LFPAK

Rev. 4 — 27 September 2011

**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 converters
- Lithium-ion battery protection
- Load switching

- Motor control
- Server power supplies

### 1.4 Quick reference data

Table 1. Quick reference data

| Symbol            | Parameter                        | Conditions  | Min | Тур  | Max  | Unit |
|-------------------|----------------------------------|---|-----|------|------|------|
| $V_{DS}$          | drain-source voltage             | T <sub>j</sub> ≥ 25 °C; T <sub>j</sub> ≤ 175 °C   | -   | -    | 100  | V    |
| I <sub>D</sub>    | drain current                    | $T_{mb}$ = 25 °C; $V_{GS}$ = 10 V;<br>see <u>Figure 1</u>   | -   | -    | 51   | Α    |
| P <sub>tot</sub>  | total power dissipation          | T <sub>mb</sub> = 25 °C; see Figure 2   | -   | -    | 117  | W    |
| Tj                | junction temperature             |   | -55 | -    | 175  | °C   |
| Static cha        | aracteristics                    |   |     |      |      |      |
| R <sub>DSon</sub> | drain-source on-state resistance | $V_{GS} = 10 \text{ V; } I_D = 15 \text{ A;}$<br>$T_j = 100 \text{ °C; see } Figure 12$   | -   | -    | 29.3 | mΩ   |
|                   |                                  | $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A};$<br>$T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure } 13}{\text{Figure } 13}$ | -   | 12.7 | 16.3 | mΩ   |



Table 1. Quick reference data ...continued

| Symbol               | Parameter                                    | Conditions   | Min | Тур | Max | Unit |
|----------------------|--|--|-----|-----|-----|------|
| Dynamic o            | characteristics                              |  |     |     |     |      |
| $Q_{GD}$             | gate-drain charge                            | $V_{GS} = 10 \text{ V}; I_D = 30 \text{ A};$   | -   | 16  | -   | nC   |
| Q <sub>G(tot)</sub>  | total gate charge                            | V <sub>DS</sub> = 50 V; see <u>Figure 14;</u><br>see <u>Figure 15</u>  | -   | 54  | -   | nC   |
| Avalanche            | ruggedness                                   |  |     |     |     |      |
| E <sub>DS(AL)S</sub> | non-repetitive drain-source avalanche energy | $V_{GS} = 10 \text{ V}; T_{j(init)} = 25 \text{ °C};$<br>$I_D = 51 \text{ A}; V_{sup} \le 100 \text{ V};$<br>unclamped; $R_{GS} = 50 \Omega$ | -   | -   | 87  | mJ   |

## 2. 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      | mounting base; connected to drain | 1 2 3 4            | mbb076 S       |

SOT669 (LFPAK; Power-SO8)

## 3. Ordering information

Table 3. Ordering information

| Type number   | Package          |   |         |
|---------------|------------------|---|---------|
|               | Name             | Description   | Version |
| PSMN016-100YS | LFPAK; Power-SO8 | plastic single-ended surface-mounted package; 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 <sub>j</sub> ≥ 25 °C; T <sub>j</sub> ≤ 175 °C   | -   | 100 | V    |  |
| $V_{DGR}$            | drain-gate voltage                           | $T_j \le 175$ °C; $T_j \ge 25$ °C; $R_{GS} = 20$ kΩ   | -   | 100 | V    |  |
| $V_{GS}$             | gate-source voltage                          |   | -20 | 20  | V    |  |
| $I_D$                | drain current                                | $V_{GS} = 10 \text{ V}; T_{mb} = 100 \text{ °C}; \text{ see } \frac{\text{Figure 1}}{\text{Model}}$           | -   | 36  | Α    |  |
|                      |  | $V_{GS} = 10 \text{ V}; T_{mb} = 25 \text{ °C}; \text{ see } \frac{\text{Figure 1}}{\text{Model}}$            | -   | 51  | Α    |  |
| I <sub>DM</sub>      | peak drain current                           | pulsed; $t_p \le 10 \mu s$ ; $T_{mb} = 25 ^{\circ}C$ ; see Figure 3   | -   | 204 | Α    |  |
| P <sub>tot</sub>     | total power dissipation                      | T <sub>mb</sub> = 25 °C; see <u>Figure 2</u>  | -   | 117 | W    |  |
| T <sub>stg</sub>     | storage temperature                          |   | -55 | 175 | °C   |  |
| Tj                   | junction temperature                         |   | -55 | 175 | °C   |  |
| T <sub>sld(M)</sub>  | peak soldering temperature                   |   | -   | 260 | °C   |  |
| Source-drai          | n diode                                      |   |     |     |      |  |
| Is                   | source current                               | T <sub>mb</sub> = 25 °C   | -   | 51  | Α    |  |
| I <sub>SM</sub>      | peak source current                          | pulsed; $t_p \le 10 \ \mu s$ ; $T_{mb} = 25 \ ^{\circ}C$  | -   | 204 | Α    |  |
| Avalanche r          | Avalanche ruggedness                         |   |     |     |      |  |
| E <sub>DS(AL)S</sub> | non-repetitive drain-source avalanche energy | $V_{GS}$ = 10 V; $T_{j(init)}$ = 25 °C; $I_D$ = 51 A;<br>$V_{sup}$ ≤ 100 V; unclamped; $R_{GS}$ = 50 $\Omega$ | -   | 87  | mJ   |  |

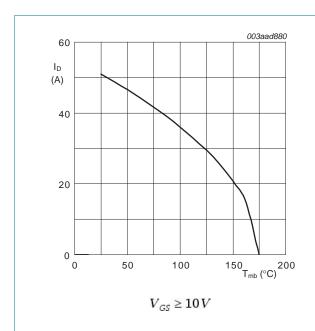


Fig 1. Continuous drain current as a function of mounting base temperature

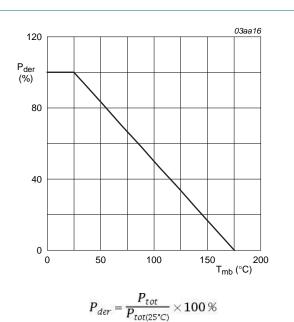
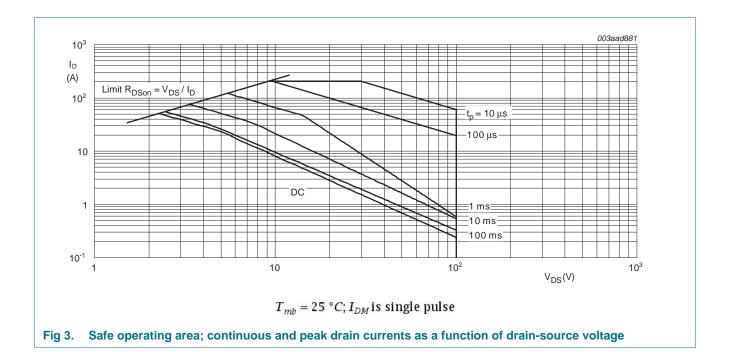


Fig 2. Normalized total power dissipation as a function of mounting base temperature



### 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 | -   | 0.54 | 1.28 | K/W  |

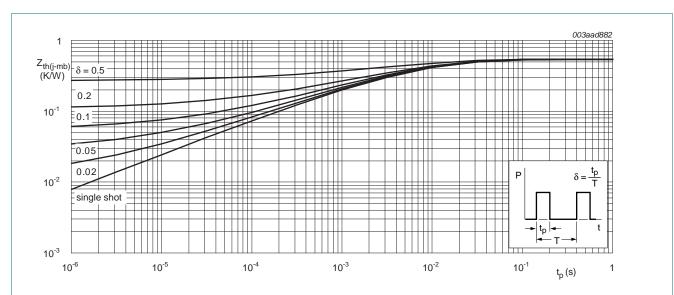


Fig 4. Transient thermal impedance from junction to mounting base as a function of pulse duration; typical values

### 6. Characteristics

Table 6. Characteristics

| Symbol                 | Parameter                         | Conditions  | Min | Тур  | Max  | Unit |
|------------------------|-----------------------------------|---|-----|------|------|------|
| Static cha             | racteristics                      |   |     |      |      |      |
| V <sub>(BR)DSS</sub>   | drain-source breakdown            | $I_D = 0.25 \text{ mA}; V_{GS} = 0 \text{ V}; T_j = -55 \text{ °C}$                                     | 90  | -    | -    | V    |
|                        | voltage                           | $I_D = 0.25 \text{ mA}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$                                      | 100 | -    | -    | V    |
| $V_{GS(th)}$           | gate-source threshold voltage     | $I_D = 1$ mA; $V_{DS} = V_{GS}$ ; $T_j = 175$ °C; see <u>Figure 10</u>                                  | 1   | -    | -    | V    |
|                        |                                   | $I_D = 1$ mA; $V_{DS} = V_{GS}$ ; $T_j = 25$ °C; see <u>Figure 11</u> ; see <u>Figure 10</u>            | 2   | 3    | 4    | V    |
|                        |                                   | $I_D = 1$ mA; $V_{DS} = V_{GS}$ ; $T_j = -55$ °C; see <u>Figure 10</u>                                  | -   | -    | 4.7  | V    |
| I <sub>DSS</sub>       | drain leakage current             | $V_{DS} = 100 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 125 \text{ °C}$                                    | -   | -    | 100  | μΑ   |
|                        |                                   | $V_{DS} = 100 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 ^{\circ}\text{C}$                               | -   | 0.04 | 2    | μΑ   |
| I <sub>GSS</sub>       | gate leakage current              | $V_{GS} = 20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$                                      | -   | 2    | 100  | nΑ   |
|                        |                                   | $V_{GS} = -20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$                                     | -   | 2    | 100  | nΑ   |
| R <sub>DSon</sub>      | drain-source on-state resistance  | $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 100 ^{\circ}\text{C};$<br>see <u>Figure 12</u>        | -   | -    | 29.3 | mΩ   |
|                        |                                   | $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 175 ^{\circ}\text{C};$<br>see Figure 12               | -   | 28.7 | 45.6 | mΩ   |
|                        |                                   | $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 25 ^{\circ}\text{C};$<br>see <u>Figure 13</u>         | -   | 12.7 | 16.3 | mΩ   |
| R <sub>G</sub>         | internal gate resistance (AC)     | f = 1 MHz   | -   | 0.6  | 1.5  | Ω    |
| Dynamic o              | characteristics                   |   |     |      |      |      |
| Q <sub>G(tot)</sub>    | total gate charge                 | $I_D = 0 A; V_{DS} = 0 V; V_{GS} = 10 V$  | -   | 42   | -    | nC   |
|                        |                                   | $I_D = 30 \text{ A}; V_{DS} = 50 \text{ V}; V_{GS} = 10 \text{ V};$                                     | -   | 54   | -    | nC   |
| $Q_{GS}$               | gate-source charge                | see Figure 14; see Figure 15  | -   | 11   | -    | nC   |
| Q <sub>GS(th)</sub>    | pre-threshold gate-source charge  | $I_D = 30 \text{ A}; V_{DS} = 50 \text{ V}; V_{GS} = 10 \text{ V};$<br>see <u>Figure 14</u>             | -   | 8    | -    | nC   |
| Q <sub>GS(th-pl)</sub> | post-threshold gate-source charge |   | -   | 3.2  | -    | nC   |
| $Q_{GD}$               | gate-drain charge                 | $I_D = 30 \text{ A}$ ; $V_{DS} = 50 \text{ V}$ ; $V_{GS} = 10 \text{ V}$ ; see Figure 14; see Figure 15 | -   | 16   | -    | nC   |
| V <sub>GS(pI)</sub>    | gate-source plateau voltage       | V <sub>DS</sub> = 50 V; see <u>Figure 14</u> ;<br>see <u>Figure 15</u>                                  | -   | 4.2  | -    | V    |
| C <sub>iss</sub>       | input capacitance                 | V <sub>DS</sub> = 50 V; V <sub>GS</sub> = 0 V; f = 1 MHz;   | -   | 2744 | -    | pF   |
| C <sub>oss</sub>       | output capacitance                | T <sub>j</sub> = 25 °C; see <u>Figure 16</u>  | -   | 205  | -    | pF   |
| C <sub>rss</sub>       | reverse transfer capacitance      |   | -   | 135  | -    | pF   |
| t <sub>d(on)</sub>     | turn-on delay time                | $V_{DS}$ = 50 V; $R_L$ = 1.7 $\Omega$ ; $V_{GS}$ = 10 V;  | -   | 19   | -    | ns   |
| t <sub>r</sub>         | rise time                         | $R_{G(ext)} = 4.7 \Omega; T_j = 25 °C$  | -   | 24   | -    | ns   |
| t <sub>d(off)</sub>    | turn-off delay time               |   | -   | 47   | -    | ns   |
| t <sub>f</sub>         | fall time                         |   | -   | 21   | -    | ns   |

Table 6. Characteristics ... continued

| Symbol             | Parameter             | Conditions  | Min | Тур | Max | Unit |
|--------------------|-----------------------|---|-----|-----|-----|------|
| Source-drain diode |                       |   |     |     |     |      |
| V <sub>SD</sub>    | source-drain voltage  | $I_S = 15 \text{ A}; V_{GS} = 0 \text{ V}; T_j = 25 ^{\circ}\text{C};$<br>see Figure 17 | -   | 0.8 | 1.2 | V    |
| t <sub>rr</sub>    | reverse recovery time | $I_S = 10 \text{ A}$ ; $dI_S/dt = 100 \text{ A/}\mu\text{s}$ ;                          | -   | 56  | -   | ns   |
| Q <sub>r</sub>     | recovered charge      | $V_{GS} = 0 \text{ V}; V_{DS} = 50 \text{ V}$   | -   | 131 | -   | nC   |

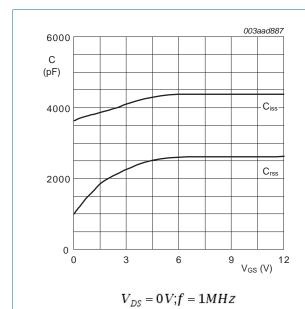
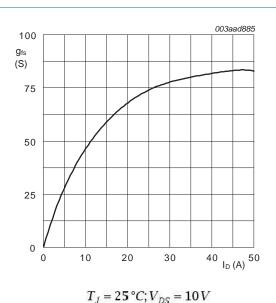


Fig 5. Input and reverse transfer capacitances as a function of gate-source voltage; typical values



1 J 2 C, 1 DS 1 C .

Fig 6. Forward transconductance as a function of drain current; typical values

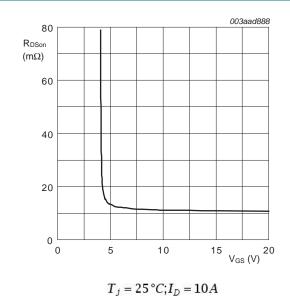


Fig 7. Drain-source on-state resistance as a function of gate-source voltage; typical values

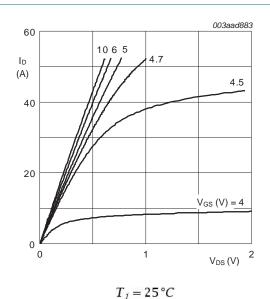
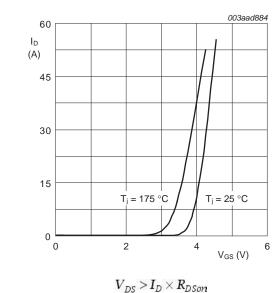
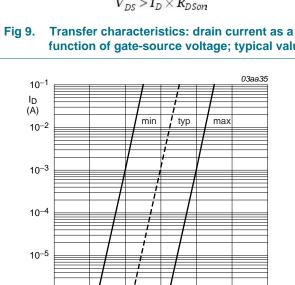


Fig 8. Output characteristics: drain current as a function of drain-source voltage; typical values



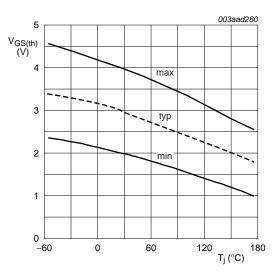
function of gate-source voltage; typical values



 $T_j = 25$  °C;  $V_{DS} = 5V$ 

V<sub>GS</sub> (V)

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



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

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

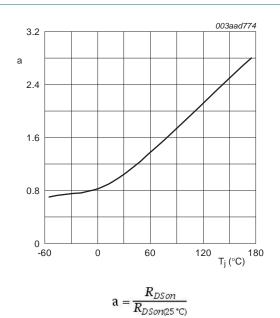
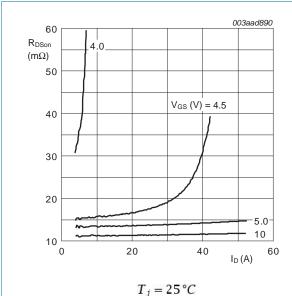


Fig 12. Normalized drain-source on-state resistance factor as a function of junction temperature

10<sup>-6</sup>



V<sub>GS</sub>(pl)

V<sub>GS</sub>(th)

V<sub>GS</sub>

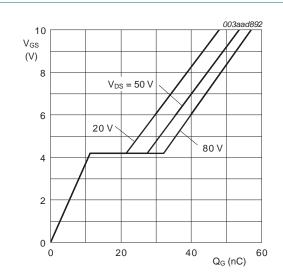
Q<sub>GS1</sub>
Q<sub>GS2</sub>
Q<sub>G</sub>(tot)

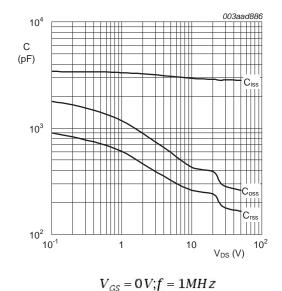
003aaa508

 $I_j = 25$  C

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

Fig 14. Gate charge waveform definitions





 $T_j = 25 \,^{\circ}C; I_D = 30A$ 

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



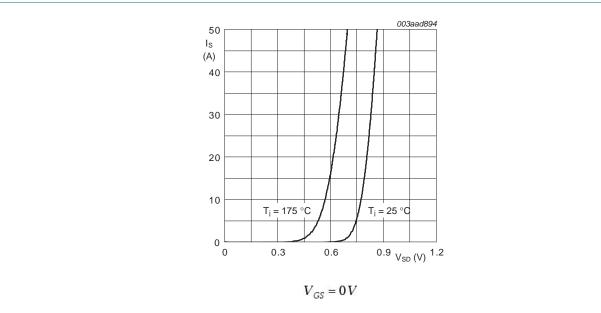


Fig 17. Source (diode forward) current as a function of source-drain (diode forward) voltage; typical values

### 7. Package outline

### Plastic single-ended surface-mounted package (LFPAK; Power-SO8); 4 leads

**SOT669** 

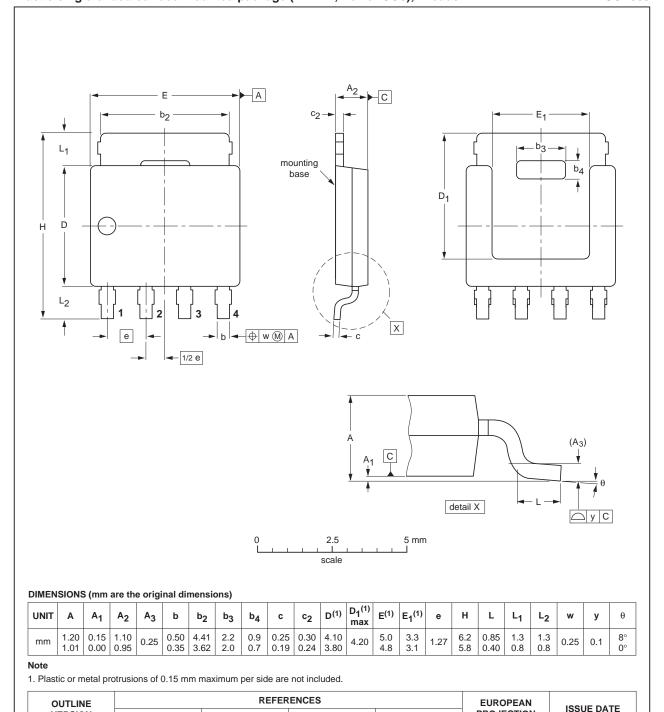


Fig 18. Package outline SOT669 (LFPAK; Power-SO8)

**JEDEC** 

MO-235

PSMN016-100YS

VERSION

SOT669

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06-03-16

11-03-25

**PROJECTION** 

## 8. Revision history

### Table 7. Revision history

| Document ID                                  | Release date | Data sheet status  | Change notice | Supersedes        |  |
|--|--------------|--------------------|---------------|-------------------|--|
| PSMN016-100YS v.4                            | 20110927     | Product data sheet | -             | PSMN016-100YS v.3 |  |
| Modifications: • Various changes to content. |              |                    |               |                   |  |
| PSMN016-100YS v.3                            | 20100330     | Product data sheet | -             | PSMN016-100YS v.2 |  |

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#### 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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PSMN016-100YS

## **PSMN016-100YS**

#### N-channel 100 V 16.3 mΩ standard level MOSFET in LFPAK

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## **PSMN016-100YS**

### **NXP Semiconductors**

### N-channel 100 V 16.3 m $\Omega$ standard level MOSFET in LFPAK

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