

# PSMN1R2-25YLC

# N-channel 25 V 1.3 m $\Omega$ logic level MOSFET in LFPAK using NextPower technology

Rev. 1 — 2 May 2011

**Product data sheet** 

### 1. Product profile

#### 1.1 General description

Logic level enhancement mode N-channel MOSFET in LFPAK package. This product is designed and qualified for use in a wide range of industrial, communications and domestic equipment.

#### 1.2 Features and benefits

- High reliability Power SO8 package, qualified to 175°C
- Optimised for 4.5V Gate drive utilising NextPower Superjunction technology
- Ultra low QG, QGD and QOSS for high system efficiencies at low and high loads
- Ultra low Rdson and low parasitic inductance

#### 1.3 Applications

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

- Power OR-ing
- Server power supplies
- Sync rectifier

#### 1.4 Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$V_{DS}$	drain-source voltage	25 °C ≤ T <sub>j</sub> ≤ 175 °C	-	-	25	V
I <sub>D</sub>	drain current	$T_{mb}$ = 25 °C; $V_{GS}$ = 10 V; see <u>Figure 1</u>	[1] -	-	100	Α
P <sub>tot</sub>	total power dissipation	T <sub>mb</sub> = 25 °C; see <u>Figure 2</u>	-	-	179	W
Tj	junction temperature		-55	-	175	°C
Static chara	acteristics					
R <sub>DSon</sub>	drain-source on-state resistance	$V_{GS} = 4.5 \text{ V}; I_{D} = 25 \text{ A};$ $T_{j} = 25 \text{ °C};$ see <u>Figure 12</u>	-	1.35	1.7	mΩ
		$V_{GS} = 10 \text{ V}; I_D = 25 \text{ A};$ $T_j = 25 \text{ °C};$ see <u>Figure 12</u>	-	1.05	1.3	mΩ



Table 1. Quick reference data ...continued

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Dynamic c	haracteristics					
$Q_{GD}$	gate-drain charge	$V_{GS} = 4.5 \text{ V}; I_D = 25 \text{ A};$ $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure 14}}{\text{Figure 15}};$	-	8.3	-	nC
Q <sub>G(tot)</sub>	total gate charge	$V_{GS} = 4.5 \text{ V}; I_D = 25 \text{ A};$ $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure 15}}{\text{Figure 14}};$ see Figure 14	-	31	-	nC

<sup>[1]</sup> Continuous current is limited by package.

### 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;	

### 3. Ordering information

Table 3. Ordering information

Type number	Package	Package				
	Name	Description	Version			
PSMN1R2-25YLC	LFPAK; Power-SO8	plastic single-ended surface-mounted package; 4 leads	SOT669			

### 4. Marking

Table 4. Marking codes

Type number	Marking code <sup>[1]</sup>
PSMN1R2-25YLC	1C225L

<sup>[1] % =</sup> placeholder for manufacturing site code.

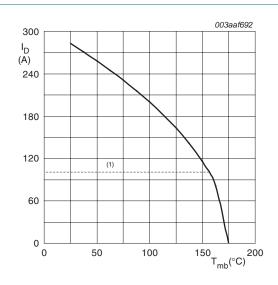
### 5. Limiting values

Table 5. Limiting values

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

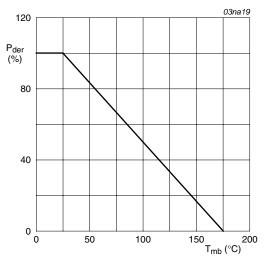
Symbol	Parameter	Conditions	Min	Max	Unit
$V_{DS}$	drain-source voltage	25 °C ≤ T <sub>j</sub> ≤ 175 °C	-	25	V
$V_{DGR}$	drain-gate voltage	25 °C ≤ $T_j$ ≤ 175 °C; $R_{GS}$ = 20 kΩ	-	25	V
$V_{GS}$	gate-source voltage		-20	20	V
I <sub>D</sub>	drain current	V <sub>GS</sub> = 10 V; T <sub>mb</sub> = 25 °C; see <u>Figure 1</u>	<u>[1]</u> _	100	Α
		V <sub>GS</sub> = 10 V; T <sub>mb</sub> = 100 °C; see <u>Figure 1</u>	<u>[1]</u> _	100	Α
I <sub>DM</sub>	peak drain current	pulsed; $t_p \le 10 \mu s$ ; $T_{mb} = 25 \text{ °C}$ ; see Figure 4	-	1133	Α
P <sub>tot</sub>	total power dissipation	T <sub>mb</sub> = 25 °C; see <u>Figure 2</u>	-	179	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
V <sub>ESD</sub>	electrostatic discharge voltage	MM (JEDEC JESD22-A115)	690	-	V
Source-drain	n diode				
Is	source current	T <sub>mb</sub> = 25 °C	-	100	Α
I <sub>SM</sub>	peak source current	pulsed; $t_p \le 10 \ \mu s$ ; $T_{mb} = 25 \ ^{\circ}C$	-	1133	Α
Avalanche r	uggedness				
E <sub>DS(AL)S</sub>	non-repetitive drain-source avalanche energy	$V_{GS}$ = 10 V; $T_{j(init)}$ = 25 °C; $I_D$ = 100 A; $V_{sup}$ ≤ 25 V; unclamped; $R_{GS}$ = 50 Ω; see Figure 3	-	178	mJ

<sup>[1]</sup> Continuous current is limited by package.



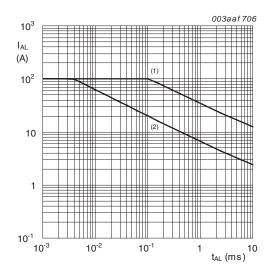
 $V_{GS} \ge 10V$ ; (1) Capped at 100A due to package

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



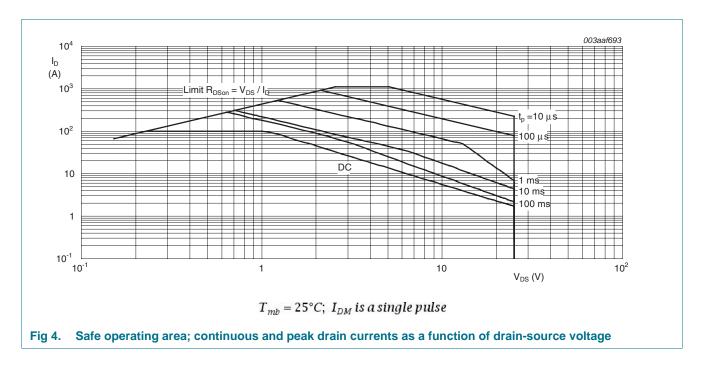
$$P_{der} = \frac{P_{tot}}{P_{tot(25^{\circ}C)}} \times 100\%$$

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



(1)  $T_{j (init)} = 25^{\circ}C$ ; (2)  $T_{j (init)} = 100^{\circ}C$ 

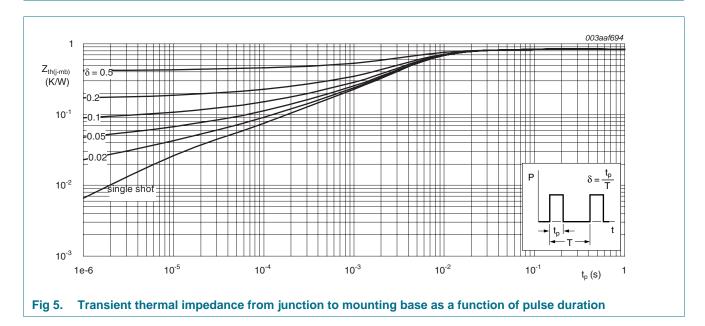
Fig 3. Single pulse avalanche rating; avalanche current as a function of avalanche time



#### 6. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$R_{th(j\text{-}mb)}$	thermal resistance from junction to mounting base	see Figure 5	-	0.71	0.84	K/W



### 7. Characteristics

Table 7. Characteristics

Table 7.	Characteristics	Conditions	NA:	T	Mass	11!
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
	aracteristics	1 250 A. V 0 V. T 25 °C	25			V
V <sub>(BR)DSS</sub>	drain-source breakdown voltage	$I_D = 250 \mu\text{A};  V_{GS} = 0  V;  T_j = 25 ^{\circ}\text{C}$	25	-	-	-
		$I_D = 250 \mu\text{A};  V_{GS} = 0  V;  T_j = -55 ^{\circ}\text{C}$	22.5	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	$I_D = 1 \text{ mA}$ ; $V_{DS} = V_{GS}$ ; $T_j = 25 \text{ °C}$ ; see <u>Figure 10</u> ; see <u>Figure 11</u>	1.05	1.45	1.95	V
		$I_D = 10 \text{ mA}; V_{DS} = V_{GS}; T_j = 150 \text{ °C}$	0.5	-	-	V
		$I_D = 1 \text{ mA}; V_{DS} = V_{GS}; T_j = -55 \text{ °C}$	-	-	2.25	V
$I_{DSS}$	drain leakage current	$V_{DS} = 25 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	1	μΑ
		$V_{DS} = 25 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 150 \text{ °C}$	-	-	100	μΑ
$I_{GSS}$	gate leakage current	$V_{GS} = 16 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	100	nΑ
		$V_{GS} = -16 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	100	nΑ
R <sub>DSon</sub>	drain-source on-state resistance	$V_{GS} = 4.5 \text{ V}; I_D = 25 \text{ A}; T_j = 25 \text{ °C};$ see Figure 12	-	1.35	1.7	mΩ
		$V_{GS} = 4.5 \text{ V}; I_D = 25 \text{ A}; T_j = 150 °C;$ see Figure 12; see Figure 13	-	-	2.75	mΩ
		$V_{GS} = 10 \text{ V; } I_D = 25 \text{ A; } T_j = 25 \text{ °C;}$ see Figure 12	-	1.05	1.3	mΩ
	$V_{GS} = 10 \text{ V}; I_D = 25 \text{ A}; T_j = 150 ^{\circ}\text{C};$ see Figure 12; see Figure 13	-	-	2.1	mΩ	
R <sub>G</sub>	gate resistance	f = 1 MHz	-	1	2	Ω
	characteristics					
-	total gate charge	$I_D = 25 \text{ A}$ ; $V_{DS} = 12 \text{ V}$ ; $V_{GS} = 10 \text{ V}$ ; see Figure 14; see Figure 15	-	66	-	nC
		$I_D$ = 25 A; $V_{DS}$ = 12 V; $V_{GS}$ = 4.5 V; see <u>Figure 15</u> ; see <u>Figure 14</u>	-	31	-	nC
		$I_D = 0 \text{ A}; V_{DS} = 0 \text{ V}; V_{GS} = 10 \text{ V}$	-	65	-	nC
Q <sub>GS</sub>	gate-source charge	$I_D = 25 \text{ A}$ ; $V_{DS} = 12 \text{ V}$ ; $V_{GS} = 4.5 \text{ V}$ ;	-	9.7	-	nC
Q <sub>GS(th)</sub>	pre-threshold	see <u>Figure 14</u> ; see <u>Figure 15</u>	-	6.7	-	nC
	gate-source charge					
Q <sub>GS(th-pl)</sub>	gate-source charge post-threshold gate-source charge		-	3	-	nC
			-	3 8.3	-	nC nC
$Q_{GD}$	post-threshold gate-source charge	I <sub>D</sub> = 25 A; V <sub>DS</sub> = 12 V; see <u>Figure 14</u> ; see <u>Figure 15</u>	- - -		-	
Q <sub>GD</sub> V <sub>GS(pI)</sub>	post-threshold gate-source charge gate-drain charge gate-source plateau voltage		- - -	8.3	-	nC
$Q_{GD}$ $V_{GS(pl)}$ $C_{iss}$	post-threshold gate-source charge gate-drain charge gate-source plateau	see Figure 15	- - - -	8.3 2.5		nC V pF
$Q_{GD}$ $V_{GS(pl)}$ $C_{iss}$ $C_{oss}$	post-threshold gate-source charge gate-drain charge gate-source plateau voltage input capacitance output capacitance reverse transfer	see <u>Figure 15</u> V <sub>DS</sub> = 12 V; V <sub>GS</sub> = 0 V; f = 1 MHz;	- - - -	8.3 2.5 4173	- - - -	nC V
$Q_{GD}$ $V_{GS(pl)}$ $C_{iss}$ $C_{oss}$ $C_{rss}$	post-threshold gate-source charge gate-drain charge gate-source plateau voltage input capacitance output capacitance reverse transfer capacitance	see Figure 15 $V_{DS} = 12 \text{ V}; V_{GS} = 0 \text{ V}; f = 1 \text{ MHz};$ $T_j = 25 \text{ °C}; \text{ see Figure 16}$	- - - -	8.3 2.5 4173 994 347		nC V pF pF
$\begin{array}{c} Q_{GD} \\ V_{GS(pl)} \\ \\ C_{iss} \\ C_{oss} \\ \\ C_{rss} \\ \end{array}$	post-threshold gate-source charge gate-drain charge gate-source plateau voltage input capacitance output capacitance reverse transfer capacitance turn-on delay time	see <u>Figure 15</u> V <sub>DS</sub> = 12 V; V <sub>GS</sub> = 0 V; f = 1 MHz;	- - - - -	8.3 2.5 4173 994 347	- - - - -	nC V pF pF pF
$Q_{GD}$ $V_{GS(pl)}$ $C_{iss}$ $C_{oss}$ $C_{rss}$ $t_{d(on)}$	post-threshold gate-source charge gate-drain charge gate-source plateau voltage input capacitance output capacitance reverse transfer capacitance turn-on delay time rise time	see <u>Figure 15</u> $V_{DS} = 12 \text{ V}; V_{GS} = 0 \text{ V}; f = 1 \text{ MHz};$ $T_{j} = 25 \text{ °C}; \text{ see } \underline{\text{Figure 16}}$ $V_{DS} = 12 \text{ V}; R_{L} = 0.5 \Omega; V_{GS} = 4.5 \text{ V};$	- - - - -	8.3 2.5 4173 994 347 32 42	- - - - -	nC V pF pF pF
$\begin{array}{c} Q_{GS(th\text{-pl})} \\ \\ Q_{GD} \\ \\ V_{GS(pl)} \\ \\ C_{iss} \\ C_{oss} \\ \\ C_{rss} \\ \\ t_{d(on)} \\ \\ t_r \\ \\ t_{d(off)} \\ \\ t_f \\ \end{array}$	post-threshold gate-source charge gate-drain charge gate-source plateau voltage input capacitance output capacitance reverse transfer capacitance turn-on delay time	see <u>Figure 15</u> $V_{DS} = 12 \text{ V}; V_{GS} = 0 \text{ V}; f = 1 \text{ MHz};$ $T_{j} = 25 \text{ °C}; \text{ see } \underline{\text{Figure 16}}$ $V_{DS} = 12 \text{ V}; R_{L} = 0.5 \Omega; V_{GS} = 4.5 \text{ V};$	- - - - - - -	8.3 2.5 4173 994 347	-	nC V pF pF pF

 Table 7.
 Characteristics ...continued

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Q <sub>oss</sub>	output charge	$V_{GS} = 0 \text{ V}; V_{DS} = 12 \text{ V}; f = 1 \text{ MHz};$ $T_j = 25 \text{ °C}$	-	21	-	nC
Source-drain diode						
V <sub>SD</sub>	source-drain voltage	$I_S = 25 \text{ A}; V_{GS} = 0 \text{ V}; T_j = 25 ^{\circ}\text{C};$ see <u>Figure 17</u>	-	0.8	1.1	V
t <sub>rr</sub>	reverse recovery time	$I_S = 25 \text{ A}$ ; $dI_S/dt = -100 \text{ A/}\mu\text{s}$ ; $V_{GS} = 0 \text{ V}$ ;	-	41	-	ns
Q <sub>r</sub>	recovered charge	V <sub>DS</sub> = 12 V	-	36	-	nC
t <sub>a</sub>	reverse recovery rise time	$V_{GS} = 0 \text{ V; } I_S = 25 \text{ A; } dI_S/dt = -100 \text{ A/}\mu\text{s;}$ $V_{DS} = 12 \text{ V; see } \frac{\text{Figure } 18}{\text{Figure } 18}$	-	24	-	ns
t <sub>b</sub>	reverse recovery fall time		-	17	-	ns

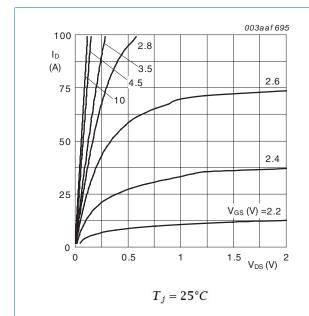


Fig 6. Output characteristics; drain current as a function of drain-source voltage; typical values

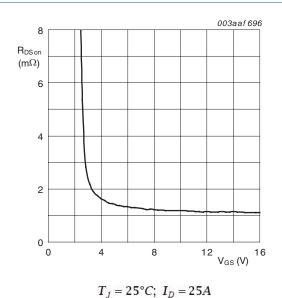


Fig 7. Drain-source on-state resistance as a function of gate-source voltage; typical values

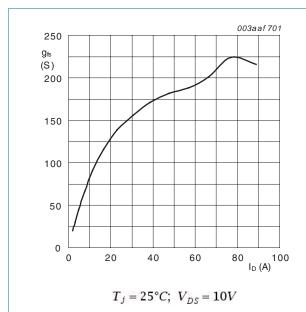


Fig 8. Forward transconductance as a function of drain current; typical values

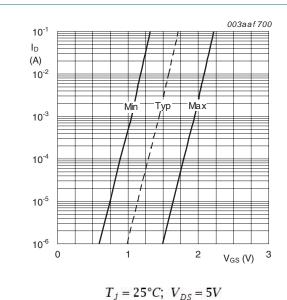


Fig 10. Sub-threshold drain current as a function of gate-source voltage

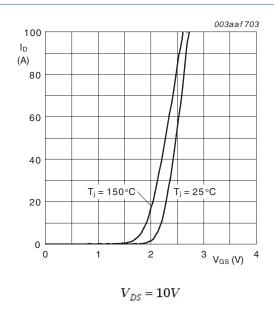


Fig 9. Transfer characteristics; drain current as a function of gate-source voltage; typical values

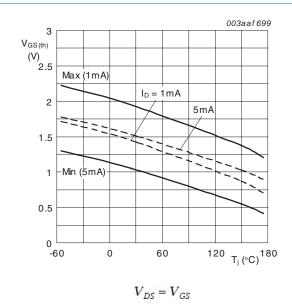


Fig 11. Gate-source threshold voltage as a function of junction temperature

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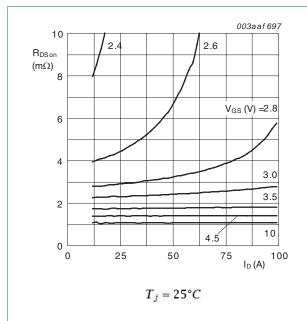


Fig 12. Drain-source on-state resistance as a function of drain current; typical values

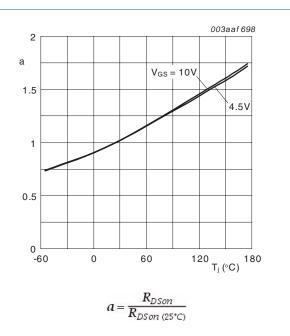


Fig 13. Normalized drain-source on-state resistance factor as a function of junction temperature

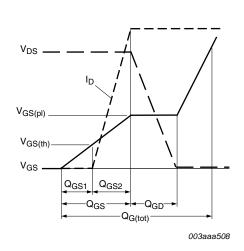
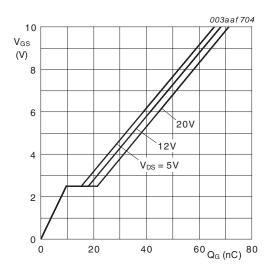


Fig 14. Gate charge waveform definitions



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

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

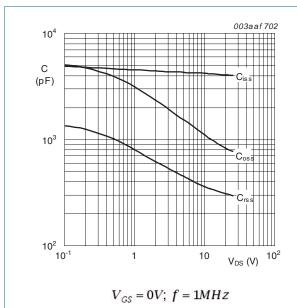


Fig 16. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

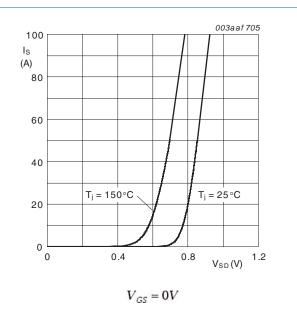


Fig 17. Source current as a function of source-drain voltage; typical values

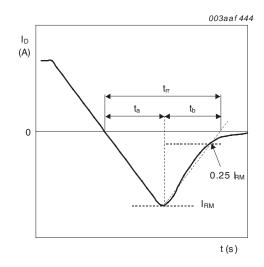
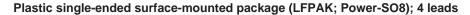


Fig 18. Reverse recovery timing definition

#### Package outline 8.



**SOT669** 

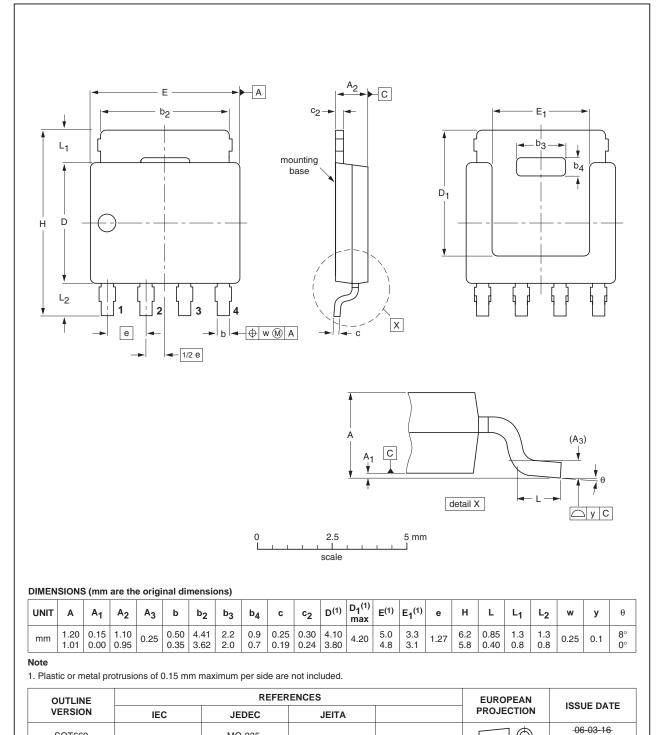


Fig 19. Package outline SOT669 (LFPAK; Power-SO8)

MO-235

PSMN1R2-25YLC

SOT669

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11-03-25

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### 9. Revision history

#### Table 8. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
PSMN1R2-25YLC v.1	20110502	Product data sheet	-	-

### 10. Legal information

#### 10.1 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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#### 11. Contact information

For more information, please visit: http://www.nxp.com

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Product data sheet

## PSMN1R2-25YLC

#### N-channel 25 V 1.3 m $\Omega$ logic level MOSFET in LFPAK using NextPower

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