

PSMN3R0-30YL

N-channel 30 V 3 m Ω logic level MOSFET in LFPAK Rev. 04 — 10 March 2011 Produc

Product data sheet

Product profile 1.

1.1 General description

Logic level N-channel enhancement mode Field-Effect Transistor (FET) in a plastic package using TrenchMOS technology. This product is designed and qualified for use in industrial and communications applications.

1.2 Features and benefits

- High efficiency due to low switching and conduction losses
- Suitable for logic level gate drive sources

1.3 Applications

- Class-D amplifiers
- DC-to-DC converters

- Motor control
- Server power supplies

1.4 Quick reference data

Table 1. Quick reference data

Conditions $T_{j} \geq 25 \text{ °C; } T_{j} \leq 175 \text{ °C}$ $T_{mb} = 25 \text{ °C; } V_{GS} = 10 \text{ V;}$ $\text{see } \frac{\text{Figure 1}}{\text{Ition}}$ $T_{mb} = 25 \text{ °C; } \text{see } \frac{\text{Figure 2}}{\text{re}}$	[1]	-	Typ	Max 30 100	V A	
T_{mb} = 25 °C; V_{GS} = 10 V; see <u>Figure 1</u> tion T_{mb} = 25 °C; see <u>Figure 2</u>	[1]	-	-	100	A	
see Figure 1 tion $T_{mb} = 25$ °C; see Figure 2	[1]	-	-			
		-	-	21	14/	
re				01	W	
		-55	-	175	°C	
ate $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A};$ $T_j = 25 \text{ °C}$		-	2.19	3	mΩ	
$V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure 14}}{\text{see } \frac{\text{Figure 15}}{\text{Figure 15}}}$		-	5.1	-	nC	
$V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 14}$		-	21	-	nC	
Avalanche ruggedness						
$\begin{aligned} &V_{GS} = 10 \text{ V; } T_{j(init)} = 25 \text{ °C;} \\ \text{nche} &I_D = 100 \text{ A; } V_{sup} \leq 30 \text{ V;} \\ &R_{GS} = 50 \Omega; \text{ unclamped} \end{aligned}$		-	-	75	mJ	
	$\begin{split} T_{j} &= 25 \text{ °C} \\ \\ V_{GS} &= 4.5 \text{ V; } I_{D} = 10 \text{ A;} \\ V_{DS} &= 12 \text{ V; see } \underline{Figure 14;} \\ \text{see } \underline{Figure 15} \\ \\ V_{GS} &= 4.5 \text{ V; } I_{D} = 10 \text{ A;} \\ V_{DS} &= 12 \text{ V; see } \underline{Figure 14} \\ \\ \\ V_{GS} &= 10 \text{ V; } T_{j(init)} = 25 \text{ °C;} \\ I_{D} &= 100 \text{ A; } V_{sup} \leq 30 \text{ V;} \end{split}$	ate $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A};$ $T_j = 25 \text{ °C}$ $V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 15}$ $V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 14}$ $V_{GS} = 10 \text{ V}; T_{j(\text{init})} = 25 \text{ °C};$ $I_D = 100 \text{ A}; V_{\text{sup}} \le 30 \text{ V};$	ate $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A};$ - $T_j = 25 \text{ °C}$ $V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ - $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 15}$ see $\frac{\text{Figure } 15}{\text{V}_{DS}} = 12 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 14}$ $V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ - $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 14}$ $V_{GS} = 10 \text{ V}; T_{j(\text{init})} = 25 \text{ °C};$ - Inche $I_D = 100 \text{ A}; V_{\text{Sup}} \le 30 \text{ V};$	ate $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A};$ - 2.19 $T_j = 25 \text{ °C}$ $V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ - 5.1 $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure 14}}{\text{Figure 15}}$ $V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ - 21 $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure 14}}{\text{Figure 14}}$ $V_{GS} = 10 \text{ V}; T_{j(\text{init})} = 25 \text{ °C};$	ate $V_{GS} = 10 \text{ V}; I_D = 15 \text{ A};$ - 2.19 3 $V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ - 5.1 - $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{see } \text{Figure } 15}$ $V_{GS} = 4.5 \text{ V}; I_D = 10 \text{ A};$ - 21 - $V_{DS} = 12 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 14}$ $V_{GS} = 10 \text{ V}; T_{j(\text{init})} = 25 \text{ °C};$ - 75 $I_D = 100 \text{ A}; V_{\text{sup}} \le 30 \text{ V};$	

^[1] 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	=	
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		
	Name	Description	Version
PSMN3R0-30YL	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 ≥ 25 °C; T _j ≤ 175 °C	-	30	V
V_{DSM}	peak drain-source voltage	$t_p \le 25 \text{ ns}; f \le 500 \text{ kHz}; E_{DS(AL)} \le 200 \text{ nJ};$ pulsed	-	35	V
V_{DGR}	drain-gate voltage	$T_j \ge 25 \text{ °C}; T_j \le 175 \text{ °C}; R_{GS} = 20 \text{ k}\Omega$	-	30	V
V_{GS}	gate-source voltage		-20	20	V
I_D	drain current	$V_{GS} = 10 \text{ V}; T_{mb} = 100 \text{ °C}; \text{ see } \frac{\text{Figure 1}}{\text{Model}}$	[1] -	96	Α
		V _{GS} = 10 V; T _{mb} = 25 °C; see <u>Figure 1</u>	[1] -	100	Α
I _{DM}	peak drain current	pulsed; $t_p \le 10 \mu s$; $T_{mb} = 25 \text{ °C}$; see Figure 3	-	497	Α
P _{tot}	total power dissipation	T _{mb} = 25 °C; see <u>Figure 2</u>	-	81	W
T _{stg}	storage temperature		-55	175	°C
Tj	junction temperature		-55	175	°C
Source-drai	n diode				
I _S	source current	T _{mb} = 25 °C	[1] -	100	Α
I _{SM}	peak source current	pulsed; $t_p \le 10 \ \mu s$; $T_{mb} = 25 \ ^{\circ}C$	-	497	Α
Avalanche r	uggedness				
E _{DS(AL)S}	non-repetitive drain-source avalanche energy	V_{GS} = 10 V; $T_{j(init)}$ = 25 °C; I_D = 100 A; V_{sup} ≤ 30 V; R_{GS} = 50 Ω ; unclamped	-	75	mJ

[1] Continuous current is limited by package.

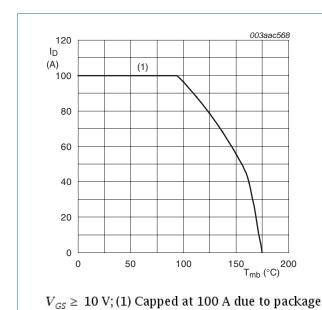
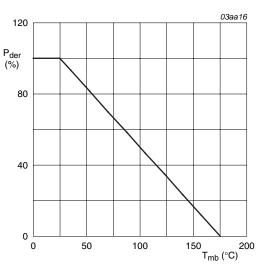
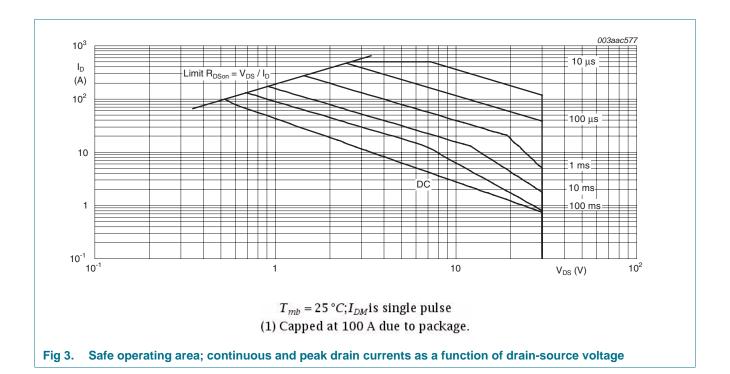


Fig 1. Continuous drain current as a function of mounting base temperature



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

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



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	-	0.9	1.5	K/W

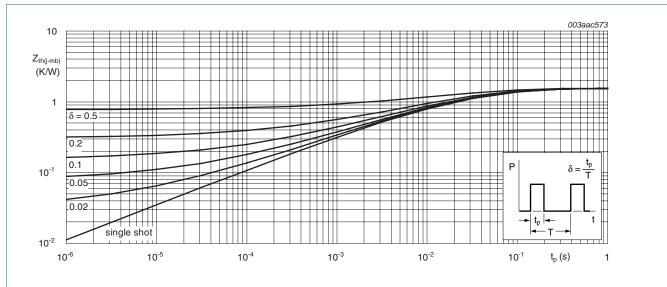


Fig 4. Transient thermal impedance from junction to mounting base as a function of pulse duration

6. Characteristics

Table 6. Characteristics

Tested to JEDEC standards where applicable.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Static chara	cteristics					
V _{(BR)DSS}	drain-source breakdown	$I_D = 250 \mu A; V_{GS} = 0 V; T_j = 25 °C$	30	-	-	V
	voltage	$I_D = 250 \ \mu A; \ V_{GS} = 0 \ V; \ T_j = -55 \ ^{\circ}C$	27	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	$I_D = 1$ mA; $V_{DS} = V_{GS}$; $T_j = 25$ °C; see <u>Figure 11</u> ; see <u>Figure 12</u>	1.3	1.7	2.15	V
		$I_D = 1$ mA; $V_{DS} = V_{GS}$; $T_j = 150$ °C; see <u>Figure 12</u>	0.65	-	-	V
		$I_D = 1$ mA; $V_{DS} = V_{GS}$; $T_j = -55$ °C; see Figure 12	-	-	2.45	V
I _{DSS}	drain leakage current	$V_{DS} = 30 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	1	μA
		$V_{DS} = 30 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 150 \text{ °C}$	-	-	100	μΑ
I _{GSS}	gate leakage current	$V_{GS} = 16 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	100	nA
		$V_{GS} = -16 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	100	nA
R_{DSon}	drain-source on-state	$V_{GS} = 4.5 \text{ V}; I_D = 15 \text{ A}; T_j = 25 \text{ °C}$	-	3.04	4.04	$m\Omega$
	resistance	$V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 150 ^{\circ}\text{C};$ see <u>Figure 13</u>	-	-	5.2	mΩ
		$V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 25 \text{ °C}$	-	2.19	3	mΩ
R_{G}	gate resistance	f = 1 MHz	-	0.55	1.5	Ω
Dynamic ch	aracteristics					
$Q_{G(tot)}$	total gate charge	$I_D = 10 \text{ A}$; $V_{DS} = 12 \text{ V}$; $V_{GS} = 10 \text{ V}$; see <u>Figure 14</u> ; see <u>Figure 15</u>	-	45.8	-	nC
		$I_D = 0 A; V_{DS} = 0 V; V_{GS} = 10 V$	-	43	-	nC
		$I_D = 10 \text{ A; } V_{DS} = 12 \text{ V; } V_{GS} = 4.5 \text{ V;}$ see <u>Figure 14</u>	-	21	-	nC
Q_{GS}	gate-source charge	$I_D = 10 \text{ A}; V_{DS} = 12 \text{ V}; V_{GS} = 4.5 \text{ V};$	-	7.02	-	nC
Q _{GS(th)}	pre-threshold gate-source charge	see <u>Figure 14</u> ; see <u>Figure 15</u>	-	4.74	-	nC
Q _{GS(th-pl)}	post-threshold gate-source charge		-	2.28	-	nC
Q_{GD}	gate-drain charge		-	5.1	-	nC
V _{GS(pl)}	gate-source plateau voltage	V _{DS} = 12 V; see <u>Figure 14</u> ; see <u>Figure 15</u>	-	2.37	-	V
C _{iss}	input capacitance	$V_{DS} = 12 \text{ V; } V_{GS} = 0 \text{ V; } f = 1 \text{ MHz;}$	-	2822	-	pF
C _{oss}	output capacitance	T _j = 25 °C; see <u>Figure 16</u>	-	615	-	pF
C _{rss}	reverse transfer capacitance		-	260	-	pF
t _{d(on)}	turn-on delay time	$V_{DS} = 12 \text{ V}; R_L = 0.5 \Omega; V_{GS} = 4.5 \text{ V};$	-	34	-	ns
t _r	rise time	$R_{G(ext)} = 4.7 \Omega$	-	58	-	ns
t _{d(off)}	turn-off delay time		-	50	-	ns
t _f	fall time		-	21	-	ns

Table 6. Characteristics ...continued

Tested to JEDEC standards where applicable.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Source-drain diode						
V_{SD}	source-drain voltage	$I_S = 25 \text{ A}$; $V_{GS} = 0 \text{ V}$; $T_j = 25 \text{ °C}$; see Figure 17	-	0.82	1.2	V
t _{rr}	reverse recovery time	$I_S = 20 \text{ A}$; $dI_S/dt = -100 \text{ A/}\mu\text{s}$;	-	35	-	ns
Q _r	recovered charge	$V_{GS} = 0 \text{ V}; V_{DS} = 20 \text{ V}$	-	29	-	nC

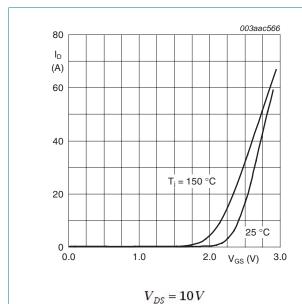
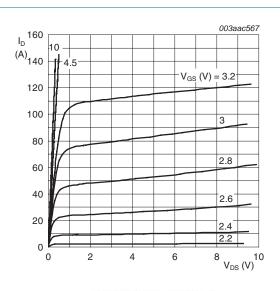


Fig 5. Transfer characteristics: drain current as a function of gate-source voltage; typical values



 $T_j = 25 \,^{\circ}C; t_p = 300 \,\mu s$

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

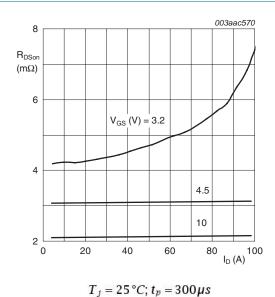
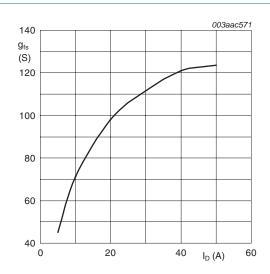


Fig 7. Drain-source on-state resistance as a function of drain current; typical values



 $T_j=25\,^{\circ}C; V_{DS}=15\,V$

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

PSMN3R0-30YL

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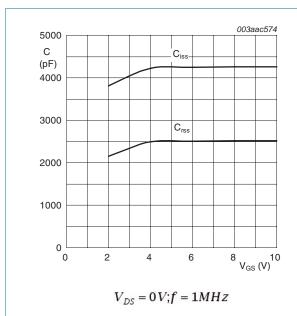
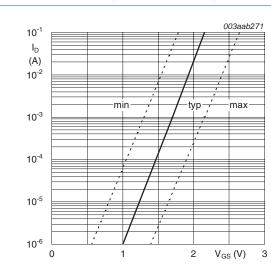
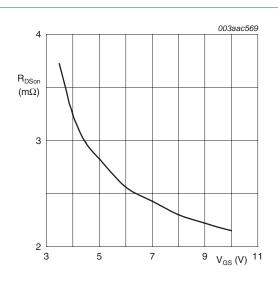


Fig 9. Input and reverse transfer capacitances as a function of gate-source voltage; typical values



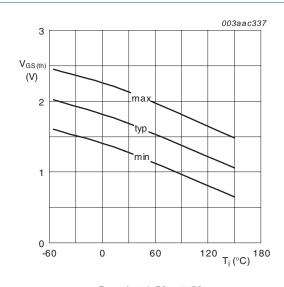
 $T_{\it j} = 25\,^{\circ}C; V_{\it DS} = 5\,V$ Fig 11. Sub-threshold drain current as a function of

gate-source voltage



$$T_j = 25 \,^{\circ}C; I_D = 10A$$

Fig 10. Drain-source on-state resistance as a function of gate-source voltage; typical values



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

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

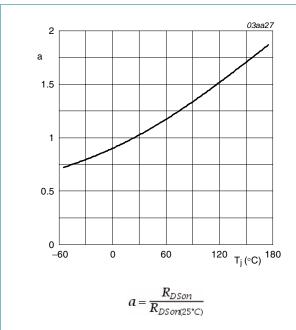


Fig 13. Normalized drain-source on-state resistance factor as a function of junction temperature

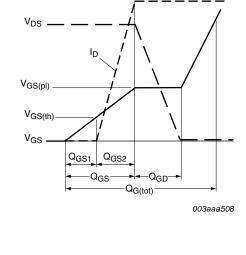


Fig 14. Gate charge waveform definitions

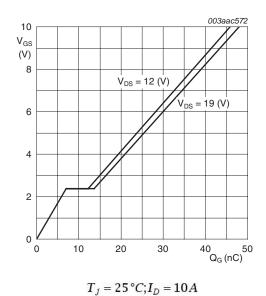
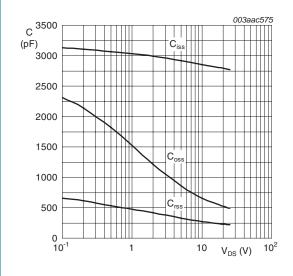


Fig 15. Gate-source voltage as a function of gate charge; typical values



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

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

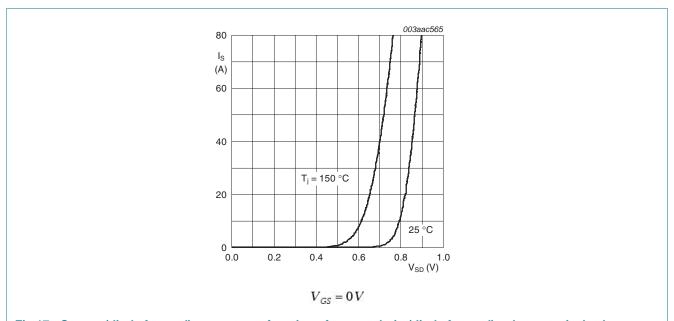


Fig 17. Source (diode forward) current as a function of source-drain (diode forward) voltage; typical values

Package outline

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

SOT669

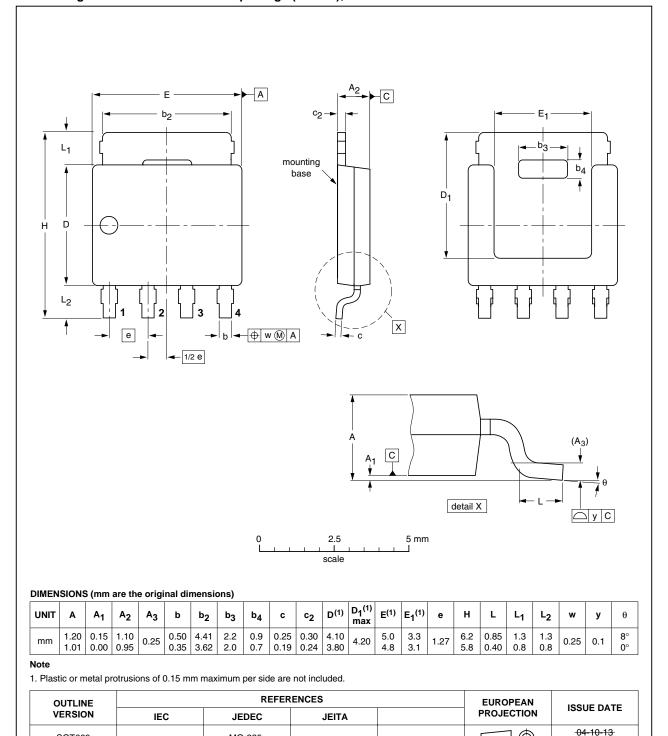


Fig 18. Package outline SOT669 (LFPAK)

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MO-235

SOT669

8. Revision history

Table 7. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
PSMN3R0-30YL v.4	20110310	Product data sheet	-	PSMN3R0-30YL v.3
Modifications:	 Various change 	es to content.		
PSMN3R0-30YL v.3	20091228	Product data sheet	-	PSMN3R0-30YL v.2

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"
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PSMN3R0-30YL

N-channel 30 V 3 mΩ logic level MOSFET in LFPAK

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10. Contact information

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

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PSMN3R0-30YL

NXP Semiconductors

N-channel 30 V 3 m Ω logic level MOSFET in LFPAK

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