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NXP Semiconductors/Freescale Semiconductor, Inc. PSMN4R8-100PSEQ

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## PSMN4R8-100PSE

N-channel 100 V 5  $m\Omega$  standard level MOSFET with improved SOA in TO220 package

11 July 2014

Product data sheet

#### 1. General description

Standard level N-channel MOSFET with improved SOA in a TO220 package. Part of NXP's "NextPower Live" portfolio, the PSMN4R8-100PSE is robust enough to withstand substantial in-rush and fault condition currents during turn on/off, whilst offering a low  $R_{DS(on)}$  characteristic to keep temperatures down and efficiency up in continued use. Ideal for telecommunication systems based on 48 V backplanes / supply rails.

#### 2. Features and benefits

- Enhanced safe operating area (SOA) for superior protection during linear mode operation
- Very low R<sub>DS(on)</sub> for low conduction losses

## 3. Applications

- Electronic fuse
- Hot-swap / Soft-start
- Uninterruptible power supplies
- Motor control

#### 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>DM</sub>	peak drain current	pulsed; $T_{mb}$ = 25 °C; $t_p \le 10 \mu s$ ; Fig. 3		-	-	693	Α
P <sub>tot</sub>	total power dissipation	T <sub>mb</sub> = 25 °C; <u>Fig. 1</u>		-	-	405	W
Static characte	Static characteristics						
R <sub>DSon</sub>	drain-source on-state resistance	$V_{GS} = 10 \text{ V}; I_D = 25 \text{ A}; T_j = 25 ^{\circ}\text{C};$ Fig. 12		-	4.3	5	mΩ
Dynamic chara	acteristics						
$Q_{GD}$	gate-drain charge	$V_{GS}$ = 10 V; $I_D$ = 25 A; $V_{DS}$ = 50 V;		-	59	83	nC
Q <sub>G(tot)</sub>	total gate charge	<u>Fig. 14; Fig. 15</u>		-	196	278	nC







#### PSMN4R8-100PSE

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Avalanche rug	gedness					
E <sub>DS(AL)S</sub>	non-repetitive drain- source avalanche energy	$V_{GS}$ = 10 V; $T_{j(init)}$ = 25 °C; $I_D$ = 120 A; $V_{sup} \le$ 100 V; $R_{GS}$ = 50 Ω; unclamped; Fig. 4	-	-	542	mJ

## **Pinning information**

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	G	gate	mb	D
2	D	drain	1 7 9	
3	S	source		G UP 44
mb	D	mounting base; connected to drain		mbb076 S
			TO-220AB (SOT78)	

## **Ordering information**

Table 3. **Ordering information** 

Type number	Package		
	Name	Description	Version
PSMN4R8-100PSE	TO-220AB	plastic single-ended package; heatsink mounted; 1 mounting hole; 3-lead TO-220AB	SOT78

#### **7**. **Marking**

#### Table 4. **Marking codes**

Type number	Marking code
PSMN4R8-100PSE	PSMN4R8-100PSE

## **Limiting values**

#### Table 5. **Limiting values**

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

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>DS</sub>	drain-source voltage	T <sub>j</sub> ≥ 25 °C; T <sub>j</sub> ≤ 175 °C	-	100	V

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Symbol	Parameter	Conditions		Min	Max	Unit
$V_{DGR}$	drain-gate voltage	$T_j \ge 25 \text{ °C}; T_j \le 175 \text{ °C}; R_{GS} = 20 \text{ k}\Omega$		-	100	V
V <sub>GS</sub>	gate-source voltage			-20	20	V
P <sub>tot</sub>	total power dissipation	T <sub>mb</sub> = 25 °C; <u>Fig. 1</u>		-	405	W
I <sub>D</sub>	drain current	V <sub>GS</sub> = 10 V; T <sub>j</sub> = 25 °C; <u>Fig. 2</u>	[1]	-	120	Α
		V <sub>GS</sub> = 10 V; T <sub>mb</sub> = 100 °C; <u>Fig. 2</u>	[1]	-	120	Α
I <sub>DM</sub>	peak drain current	pulsed; $t_p \le 10 \mu s$ ; $T_{mb} = 25 \text{ °C}$ ; Fig. 3		-	693	Α
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-drain	diode					,
Is	source current	T <sub>mb</sub> = 25 °C	[1]	-	120	Α
I <sub>SM</sub>	peak source current	pulsed; $t_p \le 10 \ \mu s$ ; $T_{mb} = 25 \ ^{\circ}C$		-	693	Α
Avalanche rug	gedness					
E <sub>DS(AL)S</sub>	non-repetitive drain-source avalanche energy	$V_{GS}$ = 10 V; $T_{j(init)}$ = 25 °C; $I_D$ = 120 A; $V_{sup}$ ≤ 100 V; $R_{GS}$ = 50 Ω; unclamped; Fig. 4		-	542	mJ

#### [1] Continuous current limited by package.

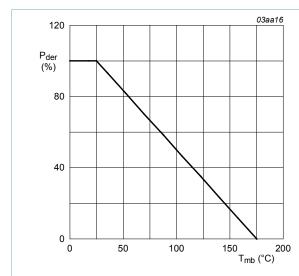
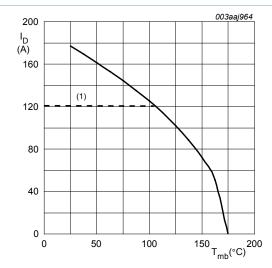


Fig. 1. Normalized total power dissipation as a function of mounting base temperature

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



(1) Capped at 120A due to package

Fig. 2. Continuous drain current as a function of mounting base temperature

$$V_{GS} \ge 10V$$

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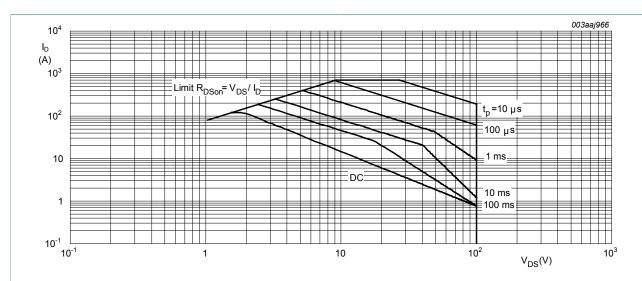
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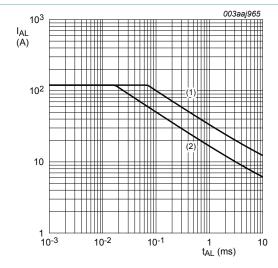
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Safe operating area; continuous and peak drain currents as a function of drain-source voltage





Single pulse avalanche rating; avalanche current as a function of avalanche time

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

#### Thermal characteristics 9.

Thermal characteristics Table 6.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R <sub>th(j-mb)</sub>	thermal resistance from junction to mounting base	Fig. 5	-	0.3	0.37	K/W
R <sub>th(j-a)</sub>	thermal resistance from junction to ambient	Minimum footprint; mounted on a printed circuit board	-	60	-	K/W

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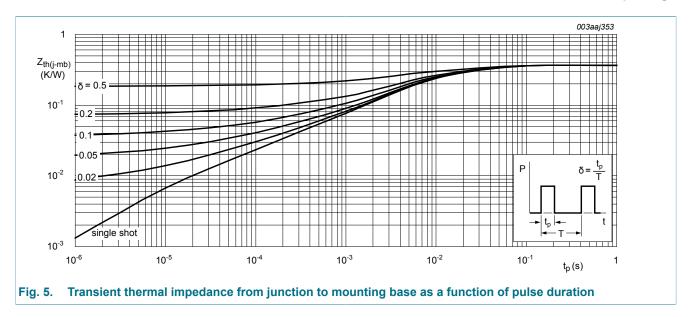
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### 10. Characteristics

Table 7. Characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Static chara	acteristics					_
V <sub>(BR)DSS</sub>	drain-source	$I_D = 250 \mu A; V_{GS} = 0 V; T_j = 25 °C$	100	-	-	V
	breakdown voltage	$I_D = 250 \mu A; V_{GS} = 0 V; T_j = -55 °C$	90	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	I <sub>D</sub> = 1 mA; V <sub>DS</sub> = V <sub>GS</sub> ; T <sub>j</sub> = 25 °C; Fig. 10; Fig. 11	2	3	4	V
$V_{GSth}$	gate-source threshold voltage	$I_D = 1 \text{ mA}; V_{DS} = V_{GS}; T_j = 175 \text{ °C};$ Fig. 11	1	-	-	V
	$I_D = 1 \text{ mA}; V_{DS} = V_{GS}; T_j = -55 \text{ °C};$ Fig. 11	-	-	4.6	V	
I <sub>DSS</sub>	drain leakage current	V <sub>DS</sub> = 100 V; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	0.16	10	μA
		V <sub>DS</sub> = 100 V; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 175 °C	-	-	500	μA
I <sub>GSS</sub>	gate leakage current	V <sub>GS</sub> = -20 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	10	100	nA
		V <sub>GS</sub> = 20 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	10	100	nA
R <sub>DSon</sub>	drain-source on-state resistance	V <sub>GS</sub> = 10 V; I <sub>D</sub> = 25 A; T <sub>j</sub> = 25 °C; Fig. 12	-	4.3	5	mΩ
		V <sub>GS</sub> = 10 V; I <sub>D</sub> = 25 A; T <sub>j</sub> = 100 °C; Fig. 13; Fig. 12	-	-	9	mΩ
		V <sub>GS</sub> = 10 V; I <sub>D</sub> = 25 A; T <sub>j</sub> = 175 °C; Fig. 12; Fig. 13	-	-	13.5	mΩ
R <sub>G</sub>	gate resistance	f = 1 MHz	0.43	0.85	1.7	Ω

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit				
Dynamic cl	Oynamic characteristics									
Q <sub>G(tot)</sub>	total gate charge	I <sub>D</sub> = 25 A; V <sub>DS</sub> = 50 V; V <sub>GS</sub> = 10 V; Fig. 14; Fig. 15	-	196	278	nC				
		I <sub>D</sub> = 0 A; V <sub>DS</sub> = 0 V; V <sub>GS</sub> = 10 V	-	166.9	234	nC				
Q <sub>GS</sub>	gate-source charge	I <sub>D</sub> = 25 A; V <sub>DS</sub> = 50 V; V <sub>GS</sub> = 10 V;	-	40	56	nC				
$Q_{GD}$	gate-drain charge	Fig. 14; Fig. 15	-	59	83	nC				
V <sub>GS(pI)</sub>	gate-source plateau voltage	I <sub>D</sub> = 25 A; V <sub>DS</sub> = 50 V; <u>Fig. 14</u> ; <u>Fig. 15</u>	-	4.3	-	V				
C <sub>iss</sub>	input capacitance	V <sub>DS</sub> = 50 V; V <sub>GS</sub> = 0 V; f = 1 MHz;	-	10665	14400	pF				
C <sub>oss</sub>	output capacitance	T <sub>j</sub> = 25 °C; <u>Fig. 16</u>	-	674	910	pF				
C <sub>rss</sub>	reverse transfer capacitance		-	459	643	pF				
t <sub>d(on)</sub>	turn-on delay time	$V_{DS}$ = 50 V; $R_L$ = 2 $\Omega$ ; $V_{GS}$ = 10 V;	-	41	61.5	ns				
t <sub>r</sub>	rise time	$R_{G(ext)} = 4.7 \Omega$	-	65	97.5	ns				
$t_{d(off)}$	turn-off delay time		-	127	190.5	ns				
t <sub>f</sub>	fall time		-	69	103.5	ns				
Source-dra	in diode									
V <sub>SD</sub>	source-drain voltage	I <sub>S</sub> = 25 A; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C; <u>Fig. 17</u>	-	0.79	1.2	V				
t <sub>rr</sub>	reverse recovery time	$I_S = 25 \text{ A}; dI_S/dt = -100 \text{ A/}\mu\text{s}; V_{GS} = 0 \text{ V};$	-	72	94	ns				
Q <sub>r</sub>	recovered charge	V <sub>DS</sub> = 50 V	-	227	296	nC				

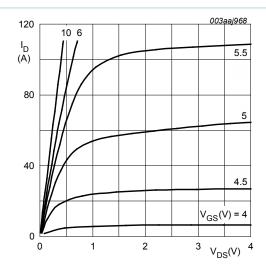


Fig. 6. Output characteristics; drain current as a function of drain-source voltage; typical values

 $T_j = 25$ °C

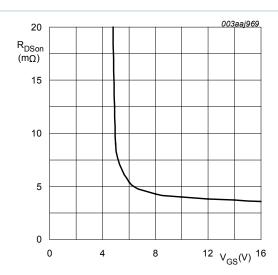


Fig. 7. Drain-source on-state resistance as a function of gate-source voltage; typical values

$$T_j = 25$$
°C;  $I_D = 25$ A

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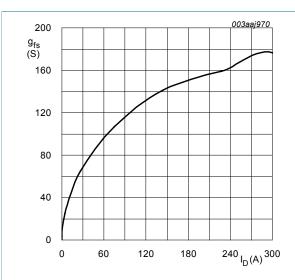


Fig. 8. Forward transconductance as a function of drain current; typical values

$$T_j = 25^{\circ}C; \ V_{DS} = 10V$$

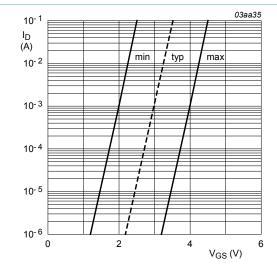


Fig. 10. Sub-threshold drain current as a function of gate-source voltage

$$T_j = 25$$
 °C;  $V_{DS} = 5V$ 

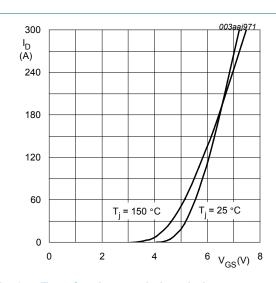


Fig. 9. Transfer characteristics; drain current as a function of gate-source voltage; typical values

$$V_{DS} = 10V$$

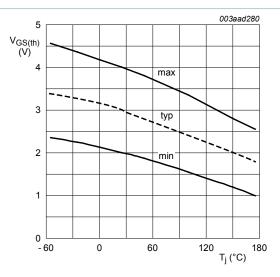


Fig. 11. Gate-source threshold voltage as a function of junction temperature

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

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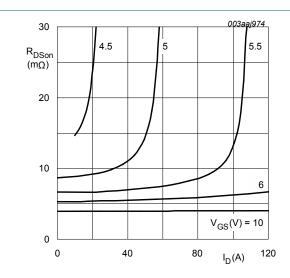


Fig. 12. Drain-source on-state resistance as a function of drain current; typical values

$$T_i = 25^{\circ}C$$

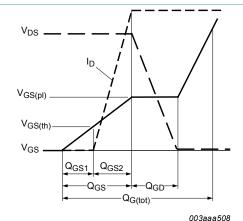


Fig. 14. Gate charge waveform definitions

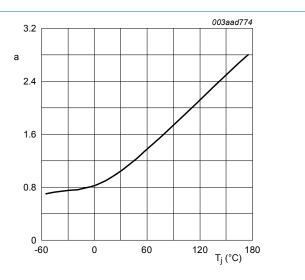


Fig. 13. Normalized drain-source on-state resistance factor as a function of junction temperature

$$a = \frac{R_{DSon}}{R_{DSon(25,°C)}}$$

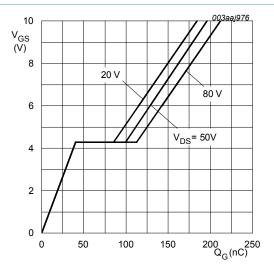


Fig. 15. Gate-source voltage as a function of gate charge; typical values

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

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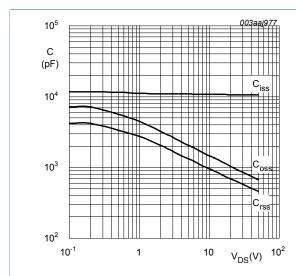
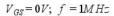
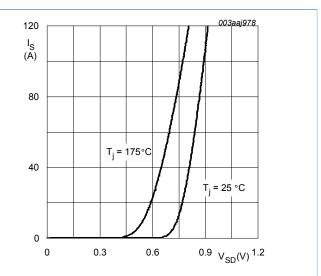


Fig. 16. Input, output and reverse transfer capacitances | Fig. 17. Source current as a function of source-drain as a function of drain-source voltage; typical values





voltage; typical values

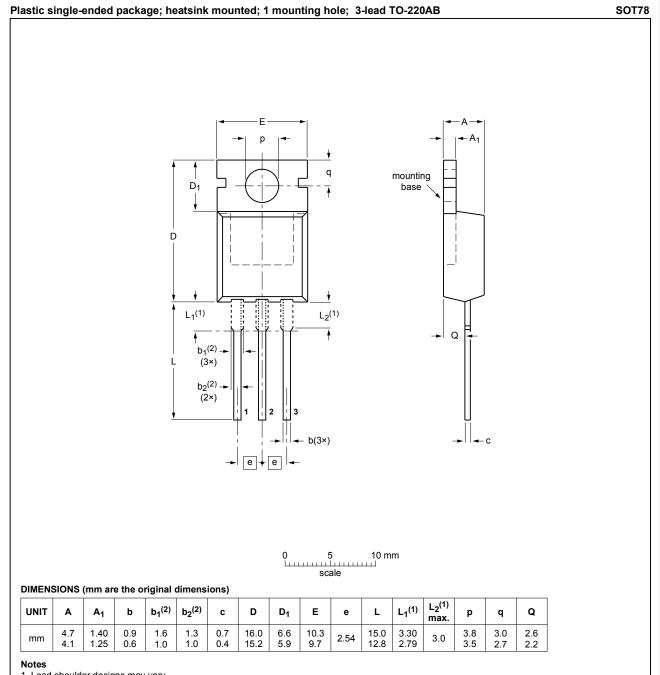
$$V_{GS} = 0V$$



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N-channel 100 V 5 m $\Omega$  standard level MOSFET with improved SOA in TO220 package

### 11. Package outline



- 1. Lead shoulder designs may vary.
- 2. Dimension includes excess dambar.

OUTLINE		REFERENCES			EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT78		3-lead TO-220AB	SC-46		$ \  \                                $	<del>08-04-23</del> 08-06-13

Fig. 18. Package outline TO-220AB (SOT78)

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#### 12. Legal information

#### 12.1 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.

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Datasheet of PSMN4R8-100PSEQ - MOSFET N-CH 100V D2PAK

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N-channel 100 V 5 m $\Omega$  standard level MOSFET with improved SOA in TO220 package

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