

PSMN5R6-100XS

N-channel 100V 5.6 m Ω standard level MOSFET in TO220F (SOT186A)

Rev. 3 — 6 March 2012

Product data sheet

1. Product profile

1.1 General description

Standard level N-channel MOSFET in TO220F (SOT186A) package qualified to 175C. This product is designed and qualified for use in a wide range of industrial, communications and domestic equipment.

1.2 Features and benefits

- High efficiency due to low switching and conduction losses
- Isolated package
- Suitable for standard level gate drive

1.3 Applications

- AC-to-DC power supply equipment
- Motor control

- Server power supplies
- Synchronous rectification

1.4 Quick reference data

Table 1. Quick reference data

Parameter	Conditions	Min	Тур	Max	Unit
drain-source voltage	T _j ≥ 25 °C; T _j ≤ 175 °C	-	-	100	V
drain current	$T_{mb} = 25 \text{ °C}; V_{GS} = 10 \text{ V}; \text{ see } \frac{\text{Figure 1}}{\text{Model}}$	-	-	61.8	Α
total power dissipation	T _{mb} = 25 °C; see <u>Figure 2</u>	-	-	60	W
acteristics					
drain-source on-state resistance	V_{GS} = 10 V; I_D = 15 A; T_j = 25 °C; see <u>Figure 12</u> ; see <u>Figure 13</u>	-	4.3	5.6	mΩ
haracteristics					
gate-drain charge	$V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; V_{DS} = 50 \text{ V}; \text{see}$	-	41.2	-	nC
total gate charge	Figure 14; see Figure 15	-	145	-	nC
ruggedness					
non-repetitive drain-source avalanche energy	V_{GS} = 10 V; $T_{j(init)}$ = 25 °C; I_D = 61.8 A; $V_{sup} \le$ 100 V; unclamped; R_{GS} = 50 Ω ; see Figure 3	-	-	550	mJ
	drain-source voltage drain current total power dissipation acteristics drain-source on-state resistance haracteristics gate-drain charge total gate charge ruggedness non-repetitive drain-source	drain-source voltage $T_j \ge 25 ^{\circ}\text{C}; T_j \le 175 ^{\circ}\text{C}$ drain current $T_{mb} = 25 ^{\circ}\text{C}; V_{GS} = 10 \text{V}; \text{see } \underline{\text{Figure 1}}$ total power dissipation $T_{mb} = 25 ^{\circ}\text{C}; \text{see } \underline{\text{Figure 2}}$ acteristics drain-source on-state resistance $V_{GS} = 10 \text{V}; I_D = 15 \text{A}; T_j = 25 ^{\circ}\text{C}; \text{see } \underline{\text{Figure 12}}; \text{see } \underline{\text{Figure 13}}$ haracteristics gate-drain charge $V_{GS} = 10 \text{V}; I_D = 15 \text{A}; V_{DS} = 50 \text{V}; \text{see}$ total gate charge $\underline{\text{Figure 14}}; \text{see } \underline{\text{Figure 15}}$ ruggedness non-repetitive drain-source avalanche energy $V_{GS} = 10 \text{V}; T_{j(init)} = 25 ^{\circ}\text{C}; I_D = 61.8 \text{A}; V_{sup} \le 100 \text{V}; \text{unclamped}; R_{GS} = 50 \Omega;$	drain-source voltage $T_j \ge 25 ^{\circ}\text{C}; T_j \le 175 ^{\circ}\text{C}$ - drain current $T_{mb} = 25 ^{\circ}\text{C}; V_{GS} = 10 \text{V}; \text{see Figure 1}$ - total power dissipation $T_{mb} = 25 ^{\circ}\text{C}; \text{see Figure 2}$ - acteristics drain-source on-state resistance $V_{GS} = 10 \text{V}; I_D = 15 \text{A}; T_j = 25 ^{\circ}\text{C}; \text{see Figure 12}; \text{see Figure 13}$ haracteristics gate-drain charge $V_{GS} = 10 \text{V}; I_D = 15 \text{A}; V_{DS} = 50 \text{V}; \text{see Figure 14}; \text{see Figure 15}$ - ruggedness non-repetitive drain-source $V_{GS} = 10 \text{V}; T_{j(init)} = 25 ^{\circ}\text{C}; T_D = 61.8 \text{A}; V_{sup} \le 100 \text{V}; \text{unclamped}; R_{GS} = 50 \Omega;$	drain-source voltage $T_j \ge 25 ^{\circ}\text{C}; T_j \le 175 ^{\circ}\text{C}$ drain current $T_{mb} = 25 ^{\circ}\text{C}; V_{GS} = 10 \text{V}; \text{see Figure 1}$ total power dissipation $T_{mb} = 25 ^{\circ}\text{C}; \text{see Figure 2}$ acteristics drain-source on-state resistance $V_{GS} = 10 \text{V}; I_D = 15 \text{A}; T_j = 25 ^{\circ}\text{C};$ - 4.3 see Figure 12; see Figure 13 haracteristics gate-drain charge $V_{GS} = 10 \text{V}; I_D = 15 \text{A}; V_{DS} = 50 \text{V}; \text{see}$ - 41.2 total gate charge Figure 14; see Figure 15 - 145 ruggedness non-repetitive drain-source $V_{GS} = 10 \text{V}; T_{j(init)} = 25 ^{\circ}\text{C}; T_D = 61.8 \text{A};$ avalanche energy $V_{Sup} \le 100 \text{V}; \text{unclamped}; R_{GS} = 50 \Omega;$	drain-source voltage $T_j \ge 25 ^{\circ}\text{C}; T_j \le 175 ^{\circ}\text{C}$ 100 drain current $T_{mb} = 25 ^{\circ}\text{C}; V_{GS} = 10 \text{V}; \text{see Figure 1}$ 61.8 total power dissipation $T_{mb} = 25 ^{\circ}\text{C}; \text{see Figure 2}$ 60 acteristics drain-source on-state resistance $V_{GS} = 10 \text{V}; I_D = 15 \text{A}; T_j = 25 ^{\circ}\text{C};$ - 4.3 5.6 see Figure 12; see Figure 13 haracteristics gate-drain charge $V_{GS} = 10 \text{V}; I_D = 15 \text{A}; V_{DS} = 50 \text{V}; \text{see}$ - 41.2 - total gate charge $V_{GS} = 10 \text{V}; I_D = 15 \text{A}; V_{DS} = 50 \text{V}; \text{see}$ - 145 - ruggedness non-repetitive drain-source $V_{GS} = 10 \text{V}; T_{j(init)} = 25 ^{\circ}\text{C}; I_D = 61.8 \text{A};$ - 550 avalanche energy $V_{Sup} \le 100 \text{V}; \text{unclamped}; R_{GS} = 50 \Omega;$



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N-channel 100V 5.6 mΩ standard level MOSFET in TO220F (SOT186A)

Pinning information

Table 2. **Pinning information**

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	G	gate		_
2	D	drain	mb	D
3	S	source		
mb		mounting base; isolated		mbb076 S
			SOT186A (TO-220F)	

Ordering information 3.

Table 3. **Ordering information**

Type number	Package		
	Name	Description	Version
PSMN5R6-100XS	TO-220F	plastic single-ended package; isolated heatsink mounted; 1 mounting hole; 3-lead TO-220 "full pack"	SOT186A

Limiting values

Limiting values

PSMN5R6-100XS

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	-	100	V
V_{DGR}	drain-gate voltage	$T_j \ge 25$ °C; $T_j \le 175$ °C; $R_{GS} = 20$ kΩ	-	100	V
V_{GS}	gate-source voltage		-20	20	V
I _D	drain current	V _{GS} = 10 V; T _{mb} = 25 °C; see <u>Figure 1</u>	-	61.8	Α
		V _{GS} = 10 V; T _{mb} = 100 °C; see <u>Figure 1</u>	-	43.7	Α
I _{DM}	peak drain current	pulsed; $t_p \le 10 \mu s$; $T_{mb} = 25 ^{\circ}C$; see Figure 4	-	247	Α
P _{tot}	total power dissipation	T _{mb} = 25 °C; see <u>Figure 2</u>	-	60	W
T _{stg}	storage temperature		-55	175	°C
Tj	junction temperature		-55	175	°C
T _{sld(M)}	peak soldering temperature		-	260	°C
Source-d	rain diode				
Is	source current	T _{mb} = 25 °C	-	50	Α
I _{SM}	peak source current	pulsed; $t_p \le 10 \ \mu s$; $T_{mb} = 25 \ ^{\circ}C$	-	247	Α
Avalanch	e ruggedness				
E _{DS(AL)S}	non-repetitive drain-source avalanche energy	V_{GS} = 10 V; $T_{j(init)}$ = 25 °C; I_D = 61.8 A; $V_{sup} \le$ 100 V; unclamped; R_{GS} = 50 Ω; see Figure 3	-	550	mJ

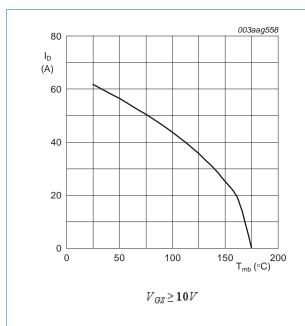


Fig 1. Continuous drain current as a function of mounting base temperature

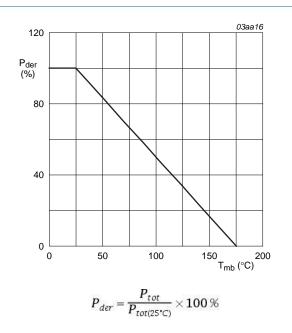
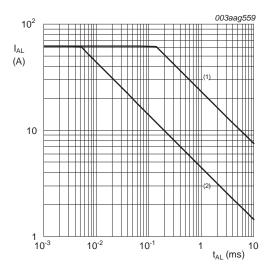
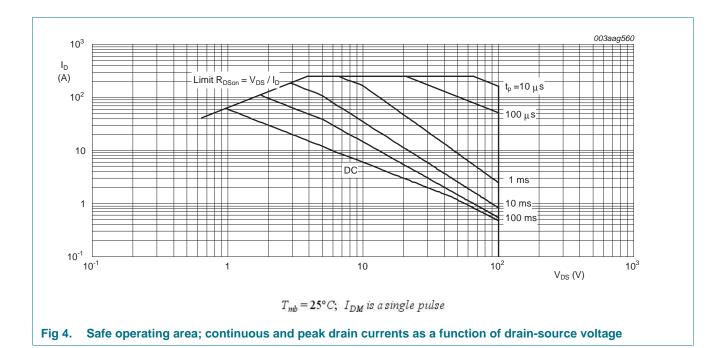


Fig 2. Normalized total power dissipation as a function of mounting base temperature



(1) $T_{j \text{ (init)}} = 25^{\circ}C$; (2) $T_{j \text{ (init)}} = 130^{\circ}C$

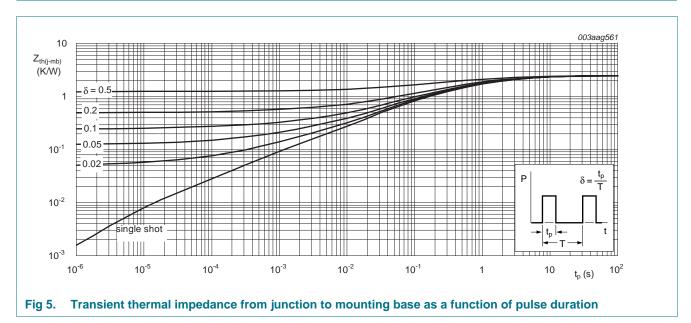
Fig 3. Single pulse avalanche rating; avalanche current as a function of avalanche time



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 5	-	2.2	2.5	K/W
$R_{th(j-a)}$	thermal resistance from junction to ambient	vertical in free air	-	55	-	K/W



6. Isolation characteristics

Table 6. Isolation characteristics

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
C_{isol}	isolation capacitance		[1]	-	10	-	pF
V _{isol(RMS)}	RMS isolation voltage	50 Hz \leq f \leq 60 Hz; RH \leq 65 %; sinusoidal waveform; clean and dust free		-	-	2500	V

[1] f = 1 MHz

7. Characteristics

Table 7. Characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
•	aracteristics	Conditions	141111	.,,,,	IIIAX	Onic
V _{(BR)DSS}	drain-source breakdown	$I_D = 250 \mu A; V_{GS} = 0 V; T_i = 25 °C$	100	_	_	V
(BR)DSS	voltage	$I_D = 250 \mu \text{A}; V_{GS} = 0 \text{ V}; T_i = 25 \text{ °C}$ $I_D = 250 \mu \text{A}; V_{GS} = 0 \text{ V}; T_i = -55 \text{ °C}$	90			V
Vasus	gate-source threshold voltage		2	3	4	V
$V_{GS(th)}$	gate-source tilleshou voltage	see Figure 10; see Figure 11		J	4	
		$I_D = 1 \text{ mA}$; $V_{DS} = V_{GS}$; $T_j = 175 \text{ °C}$; see Figure 10	1	-	-	V
		$I_D = 1 \text{ mA}$; $V_{DS} = V_{GS}$; $T_j = -55 \text{ °C}$; see Figure 10	-	-	4.6	V
I _{DSS}	drain leakage current	$V_{DS} = 100 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	10	μΑ
		V _{DS} = 100 V; V _{GS} = 0 V; T _j = 100 °C	-	-	200	μΑ
I _{GSS}	gate leakage current	$V_{GS} = 20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	2	100	nA
		$V_{GS} = -20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	2	100	nA
R _{DSon}	drain-source on-state resistance	$V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 25 \text{ °C};$ see Figure 12; see Figure 13	-	4.3	5.6	mΩ
		$V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 100 \text{ °C};$ see Figure 13	-	7.5	9.8	mΩ
		$V_{GS} = 10 \text{ V}; I_D = 15 \text{ A}; T_j = 175 \text{ °C};$ see Figure 13	-	12	15.7	mΩ
R _G	internal gate resistance (AC)	f = 1 MHz	-	0.97	-	Ω
Dynamic	characteristics					
Q _{G(tot)} total gate charge		$I_D = 15 \text{ A}; V_{DS} = 50 \text{ V}; V_{GS} = 10 \text{ V};$	-	145	-	nC
Q _{GS}	gate-source charge	see Figure 14; see Figure 15	-	32.5	-	nC
Q _{GS(th)}	pre-threshold gate-source charge		-	13.1	-	nC
Q _{GS(th-pl)}	post-threshold gate-source charge		-	19.4	-	nC
Q_{GD}	gate-drain charge		-	41.2	-	nC
$V_{GS(pl)}$	gate-source plateau voltage	$I_D = 15 \text{ A}$; $V_{DS} = 50 \text{ V}$; see <u>Figure 14</u> ; see <u>Figure 15</u>	-	4.2	-	V
C _{iss}	input capacitance	V_{DS} = 50 V; V_{GS} = 0 V; f = 1 MHz; T_j = 25 °C; see <u>Figure 16</u> ; see <u>Figure 17</u>	-	8061	-	pF
C _{oss}	output capacitance	$V_{DS} = 50 \text{ V}; V_{GS} = 0 \text{ V}; f = 1 \text{ MHz};$ $T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure 16}}{\text{ or } 100 \text{ cm}}$	-	561	-	pF
C _{rss}	reverse transfer capacitance	$V_{DS} = 50 \text{ V}; V_{GS} = 0 \text{ V}; f = 1 \text{ MHz};$ $T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure 16}}{\text{Figure 17}};$ see Figure 17	-	330	-	pF
t _{d(on)}	turn-on delay time	$V_{DS} = 50 \text{ V}; R_L = 4 \Omega; V_{GS} = 10 \text{ V};$	-	35	-	ns
t _r	rise time	$R_{G(ext)} = 4.7 \Omega$; $T_j = 25 °C$	-	38	-	ns
t _{d(off)}	turn-off delay time		-	116	-	ns
t _f	fall time		-	49	-	ns

 Table 7.
 Characteristics ...continued

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Source-drain	n diode					
V _{SD}	source-drain voltage	$I_S = 10 \text{ A}$; $V_{GS} = 0 \text{ V}$; $T_j = 25 \text{ °C}$; see Figure 18	-	0.75	1.2	V
t _{rr}	reverse recovery time	$I_S = 10 \text{ A}$; $dI_S/dt = -100 \text{ A/}\mu\text{s}$;	-	67	-	ns
Q _r	recovered charge	$V_{GS} = 0 \text{ V}; V_{DS} = 50 \text{ V}$	-	182	-	nC

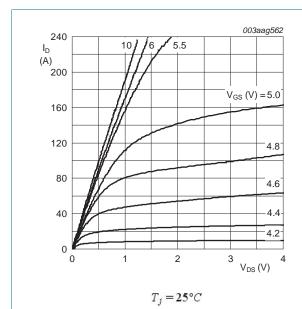


Fig 6. Output characteristics; drain current as a function of drain-source voltage; typical values

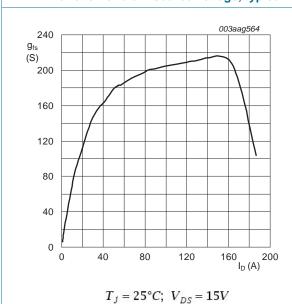


Fig 8. Forward transconductance as a function of drain current; typical values

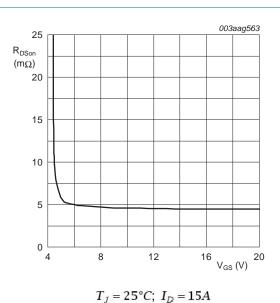


Fig 7. Drain-source on-state resistance as a function of gate-source voltage; typical values

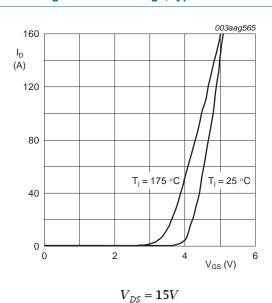
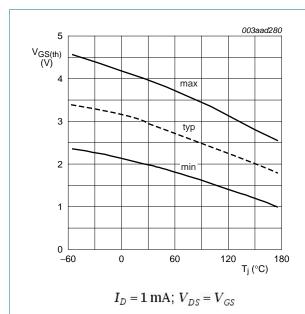
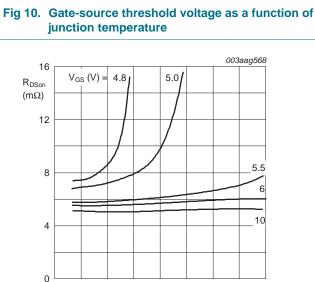


Fig 9. Transfer characteristics; drain current as a function of gate-source voltage; typical values

PSMN5R6-100XS



junction temperature

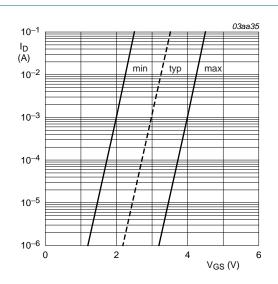


 $T_j = 25^{\circ}C$

120

60

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



 $T_j = 25 \,^{\circ}C; V_{DS} = 5V$

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

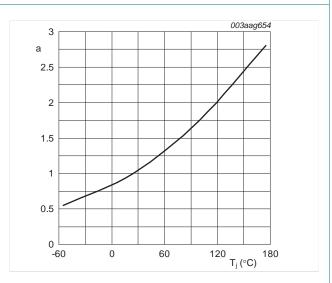
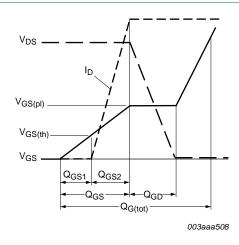


Fig 13. Normalized drain-source on-state resistance factor as a function of junction temperature

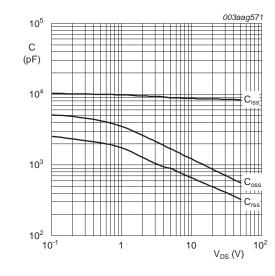
 $I_D(A)$



 $T_j = 25^{\circ}C; \ I_D = 15A$

Fig 14. Gate charge waveform definitions





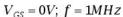
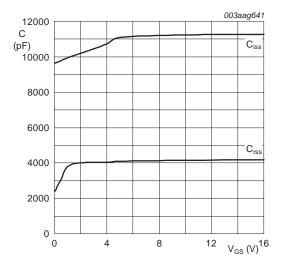
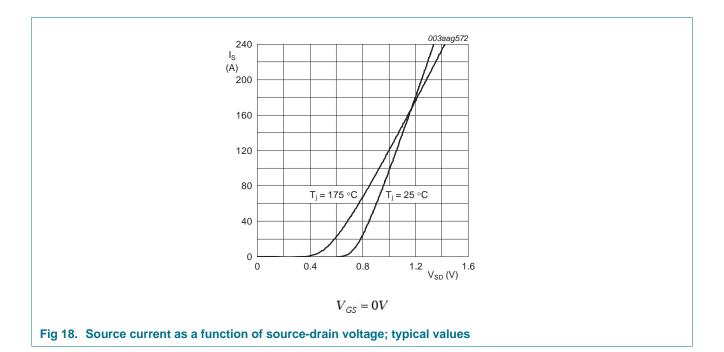


Fig 16. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values



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

Fig 17. Input and reverse transfer capacitances as a function of gate-source voltage, typical values

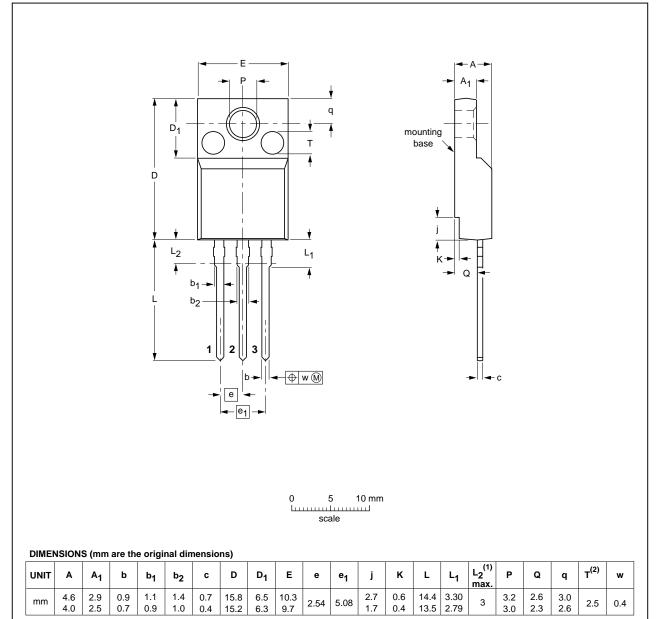


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8. Package outline

Plastic single-ended package; isolated heatsink mounted; 1 mounting hole; 3-lead TO-220 'full pack'

SOT186A



Notes

- 1. Terminal dimensions within this zone are uncontrolled.
- 2. Both recesses are \varnothing 2.5 \times 0.8 max. depth

OUTLINE		REFER	ENCES	EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT186A		3-lead TO-220F			-02-04-09 06-02-14

Fig 19. Package outline SOT186A (TO-220F)

PSMN5R6-100XS

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Revision history

Table 8. **Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes
PSMN5R6-100XS v.3	20120306	Product data sheet	-	PSMN5R6-100XS v.2
Modifications:	 Status changed from 	om preliminary to product		
	 Various changes to 	o content.		
PSMN5R6-100XS v.2	20110926	Preliminary data sheet	-	PSMN5R6-100XS v.1

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'
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PSMN5R6-100XS

N-channel 100V 5.6 mΩ standard level MOSFET in TO220F (SOT186A)

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11. Contact information

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