

PSMN016-100XS

N-channel 100V 16 m Ω standard level MOSFET in TO220F (SOT186A)

Rev. 4 — 6 March 2012

Product data sheet

Product profile 1.

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

1.3 Applications

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

1.4 Quick reference data

- Isolated package
- Suitable for standard level gate drive
- Server power supplies
- Synchronous rectification

Table 1.	Quick reference data					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{DS}	drain-source voltage	T _j ≥ 25 °C; T _j ≤ 175 °C	-	-	100	V
I _D	drain current	T_{mb} = 25 °C; V_{GS} = 10 V; see <u>Figure 1</u>	-	-	32.1	А
P _{tot}	total power dissipation	T _{mb} = 25 °C; see <u>Figure 2</u>	-	-	46.1	W
Static cha	racteristics					
R _{DSon}	drain-source on-state resistance	V_{GS} = 10 V; I_D = 10 A; T_j = 25 °C; see <u>Figure 12</u> ; see <u>Figure 13</u>	-	13	16	mΩ
Dynamic	characteristics					
Q_{GD}	gate-drain charge	V_{GS} = 10 V; I_{D} = 10 A; V_{DS} = 50 V;	-	14.2	-	nC
Q _{G(tot)}	total gate charge	see <u>Figure 14;</u> see <u>Figure 15</u>	-	46.2	-	nC
Avalanch	e ruggedness					
E _{DS(AL)S}	non-repetitive drain-source avalanche energy		-	-	138	mJ



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2. Pinning information

Table 2.	Pinning	j information		
Pin	Symbol	Description	Simplified outline	Graphic symbol
1	G	gate		_
2	D	drain	mb	
3	S	source		
mb		mounting base; isolated		mbb076 S

SOT186A (TO-220F)

3. Ordering information

Table 3.Ordering information

Type number	Package		
	Name	Description	Version
PSMN016-100XS	TO-220F	plastic single-ended package; isolated heatsink mounted; 1 mounting hole; 3-lead TO-220 "full pack"	SOT186A

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4. Limiting values

Table 4. Limiting values

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

Parameter	Conditions	Min	Max	Unit
drain-source voltage	T _j ≥ 25 °C; T _j ≤ 175 °C	-	100	V
drain-gate voltage	T _j ≥ 25 °C; T _j ≤ 175 °C; R _{GS} = 20 kΩ	-	100	V
gate-source voltage		-20	20	V
drain current	V _{GS} = 10 V; T _{mb} = 25 °C; see <u>Figure 1</u>	-	32.1	А
	V _{GS} = 10 V; T _{mb} = 100 °C; see <u>Figure 1</u>	-	22.7	А
peak drain current	pulsed; $t_p \le 10 \ \mu s$; $T_{mb} = 25 \ ^{\circ}C$; see Figure 4	-	128	А
total power dissipation	T _{mb} = 25 °C; see <u>Figure 2</u>	-	46.1	W
storage temperature		-55	175	°C
junction temperature		-55	175	°C
peak soldering temperature		-	260	°C
n diode				
source current	T _{mb} = 25 °C	-	38.5	А
peak source current	pulsed; $t_p \le 10 \ \mu s$; $T_{mb} = 25 \ ^{\circ}C$	-	128	А
uggedness				
non-repetitive drain-source avalanche energy	$V_{GS} = 10 \text{ V}; T_{j(init)} = 25 \text{ °C}; I_D = 32.1 \text{ A};$ $V_{sup} \le 100 \text{ V};$ unclamped; $R_{GS} = 50 \Omega;$ see Figure 3	-	138	mJ
	drain-source voltage drain-gate voltage gate-source voltage drain current peak drain current total power dissipation storage temperature junction temperature peak soldering temperature n diode source current peak source current uggedness non-repetitive drain-source	$\begin{array}{ll} drain-source \ voltage & T_j \ge 25\ ^{\circ}\text{C};\ T_j \le 175\ ^{\circ}\text{C} \\ drain-gate \ voltage & T_j \ge 25\ ^{\circ}\text{C};\ T_j \le 175\ ^{\circ}\text{C};\ R_{GS} = 20\ \text{k}\Omega \\ gate-source \ voltage & \\ drain \ current & \frac{V_{GS} = 10\ \text{V};\ T_{mb} = 25\ ^{\circ}\text{C};\ see\ Figure\ 1}{V_{GS} = 10\ \text{V};\ T_{mb} = 100\ ^{\circ}\text{C};\ see\ Figure\ 1} \\ peak\ drain\ current & pulsed;\ t_p \le 10\ \mu\text{s};\ T_{mb} = 25\ ^{\circ}\text{C};\ see\ Figure\ 4} \\ total\ power\ dissipation & T_{mb} = 25\ ^{\circ}\text{C};\ see\ Figure\ 2} \\ storage\ temperature & \\ peak\ soldering\ temperature & \\ peak\ soldering\ temperature & \\ peak\ soldering\ temperature & \\ pulsed;\ t_p \le 10\ \mu\text{s};\ T_{mb} = 25\ ^{\circ}\text{C} \\ peak\ source\ current & T_{mb} = 25\ ^{\circ}\text{C} \\ peak\ source\ current & pulsed;\ t_p \le 10\ \mu\text{s};\ T_{mb} = 25\ ^{\circ}\text{C} \\ \\ uggedness & \\ non-repetitive\ drain-source & \\ v_{GS} = 10\ \text{V};\ T_{j(init)} = 25\ ^{\circ}\text{C};\ l_D = 32.1\ \text{A}; \\ v_{sup} \le 100\ \text{V};\ unclamped;\ R_{GS} = 50\ \Omega; \\ \end{array}$	$\begin{array}{ccc} drain-source voltage & T_j \geq 25 \ ^{\circ}\text{C}; \ T_j \leq 175 \ ^{\circ}\text{C} & - \\ drain-gate voltage & T_j \geq 25 \ ^{\circ}\text{C}; \ T_j \leq 175 \ ^{\circ}\text{C}; \ R_{GS} = 20 \ \text{k}\Omega & - \\ gate-source voltage & -20 \\ drain current & V_{GS} = 10 \ ^{\circ}\text{V}; \ T_{mb} = 25 \ ^{\circ}\text{C}; \ see \ Figure 1 & - \\ \hline V_{GS} = 10 \ ^{\circ}\text{V}; \ T_{mb} = 100 \ ^{\circ}\text{C}; \ see \ Figure 1 & - \\ \hline V_{GS} = 10 \ ^{\circ}\text{V}; \ T_{mb} = 100 \ ^{\circ}\text{C}; \ see \ Figure 1 & - \\ \hline v_{GS} = 10 \ ^{\circ}\text{V}; \ T_{mb} = 25 \ ^{\circ}\text{C}; \ see \ Figure 2 & - \\ total power dissipation & T_{mb} = 25 \ ^{\circ}\text{C}; \ see \ Figure 2 & - \\ storage temperature & -55 \\ junction temperature & -55 \\ peak soldering temperature & -55 \\ peak source current & T_{mb} = 25 \ ^{\circ}\text{C} & - \\ peak source current & pulsed; \ t_p \leq 10 \ \mu\text{s}; \ T_{mb} = 25 \ ^{\circ}\text{C} & - \\ \\ uggedness & \\ non-repetitive \ drain-source & \\ avalanche \ energy & V_{GS} = 10 \ ^{\circ}\text{V}; \ T_{j(init)} = 25 \ ^{\circ}\text{C}; \ I_D = 32.1 \ \text{A}; \\ V_{sup} \leq 100 \ ^{\circ}\text{V}; unclamped; \ R_{GS} = 50 \ \Omega; \end{array}$	$\begin{array}{cccc} drain-source voltage & T_j \geq 25\ {}^\circ C;\ T_j \leq 175\ {}^\circ C & - & 100 \\ drain-gate voltage & T_j \geq 25\ {}^\circ C;\ T_j \leq 175\ {}^\circ C;\ R_{GS} = 20\ k\Omega & - & 100 \\ gate-source voltage & -20 & 20 \\ drain current & V_{GS} = 10\ V;\ T_{mb} = 25\ {}^\circ C;\ see\ Figure\ 1 & - & 32.1 \\ V_{GS} = 10\ V;\ T_{mb} = 100\ {}^\circ C;\ see\ Figure\ 1 & - & 22.7 \\ peak\ drain\ current & pulsed;\ t_p \leq 10\ \mu s;\ T_{mb} = 25\ {}^\circ C;\ see\ Figure\ 4 & - & 128 \\ total\ power\ dissipation & T_{mb} = 25\ {}^\circ C;\ see\ Figure\ 2 & - & 46.1 \\ storage\ temperature & -55 & 175 \\ junction\ temperature & -55 & 175 \\ peak\ soldering\ temperature & -55 & 175 \\ peak\ soldering\ temperature & -55 & 175 \\ peak\ source\ current & T_{mb} = 25\ {}^\circ C & - & 38.5 \\ peak\ source\ current & T_{mb} = 25\ {}^\circ C;\ I_D = 32.1\ A; \\ pulsed;\ t_p \leq 10\ V;\ T_{j(init)} = 25\ {}^\circ C;\ I_D = 32.1\ A; \\ v_{sup} \leq 100\ V;\ unclamped;\ R_{GS} = 50\ \Omega; \\ \end{array}$

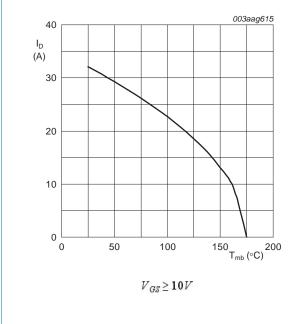


Fig 1. Continuous drain current as a function of mounting base temperature

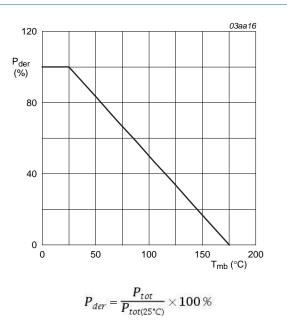
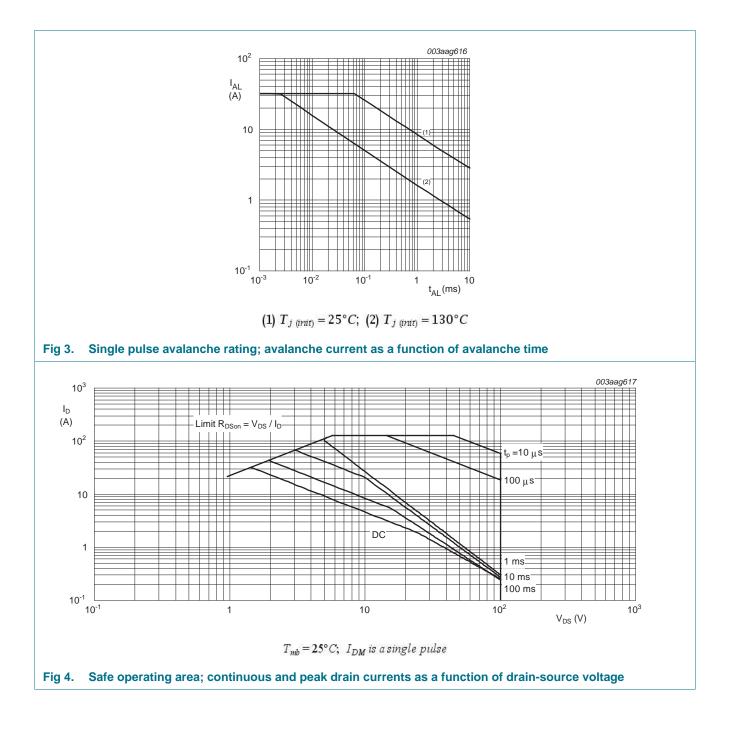


Fig 2. Normalized total power dissipation as a function of mounting base temperature

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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	-	3	3.25	K/W
R _{th(j-a)}	thermal resistance from junction to ambient	vertical in free air	-	55	-	K/W

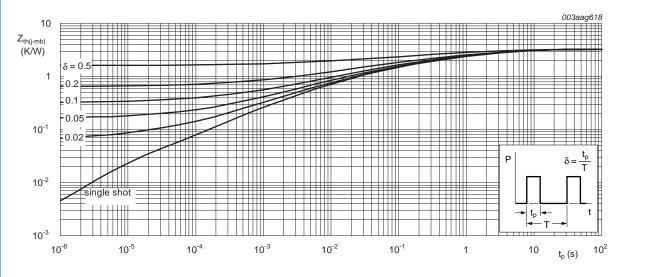


Fig 5. Transient thermal impedance from junction to mounting base as a function of pulse duration

6. Isolation characteristics

Table 6.	Isolation characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
C _{isol}	isolation capacitance	f = 1 MHz	-	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

7. Characteristics

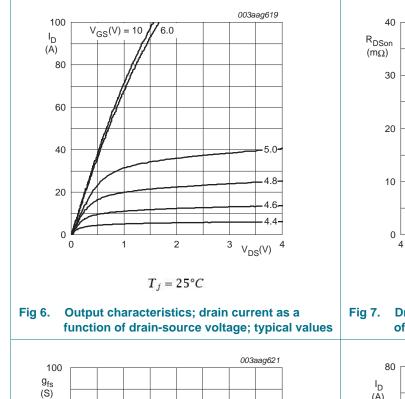
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
	racteristics			.71		
V _{(BR)DSS}	drain-source breakdown voltage	I _D = 250 μA; V _{GS} = 0 V; T _i = 25 °C	100	-	-	V
- (BR)D33		$I_D = 250 \ \mu\text{A}; \ V_{GS} = 0 \ V; \ T_i = -55 \ ^{\circ}\text{C}$	90	-	-	V
V _{GS(th)}	gate-source threshold voltage	$I_D = 1 \text{ mA}; V_{DS} = V_{GS}; T_j = 25 \text{ °C};$ see Figure 10; see Figure 11	2	3	4	V
		$I_D = 1 \text{ mA}; V_{DS} = V_{GS}; T_j = 175 \text{ °C};$ 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	$V_{DS} = 100 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	5	μA
		V _{DS} = 100 V; V _{GS} = 0 V; T _j = 100 °C	-	-	100	μA
GSS	gate leakage current	V _{GS} = 20 V; V _{DS} = 0 V; T _j = 25 °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 V; I_D = 10 A; T_j = 25 °C; see Figure 12; see Figure 13	-	13	16	mΩ
		V_{GS} = 10 V; I_D = 10 A; T_j = 100 °C; see Figure 13	-	22.8	28	mΩ
		V_{GS} = 10 V; I_D = 10 A; T_j = 175 °C; see Figure 13	-	36.4	44.8	mΩ
R _G	internal gate resistance (AC)	f = 1 MHz	-	0.9	-	Ω
Dynamic o	haracteristics					
Q _{G(tot)}	total gate charge	$I_D = 10 \text{ A}; V_{DS} = 50 \text{ V}; V_{GS} = 10 \text{ V};$	-	46.2	-	nC
Q _{GS}	gate-source charge	see Figure 14; see Figure 15	-	10.4	-	nC
Q _{GS(th)}	pre-threshold gate-source charge		-	7.1	-	nC
Q _{GS(th-pl)}	post-threshold gate-source charge		-	3.3	-	nC
Q _{GD}	gate-drain charge		-	14.2	-	nC
V _{GS(pl)}	gate-source plateau voltage	$I_D = 10 \text{ A}; V_{DS} = 50 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 15}$	-	4.5	-	V
C _{iss}	input capacitance	$V_{DS} = 50 \text{ V}; V_{GS} = 0 \text{ V}; f = 1 \text{ MHz};$ $T_j = 25 \text{ °C}; \text{ see } Figure 16;$ see Figure 17	-	2404	-	pF
C _{oss}	output capacitance	$V_{DS} = 50 \text{ V}; V_{GS} = 0 \text{ V}; f = 1 \text{ MHz};$ $T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure 16}}{10000000000000000000000000000000000$	-	189	-	pF
C _{rss}	reverse transfer capacitance	$V_{DS} = 50 \text{ V}; V_{GS} = 0 \text{ V}; f = 1 \text{ MHz};$ $T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure } 16}{\text{Figure } 17}$	-	113	-	pF
d(on)	turn-on delay time	$V_{DS} = 50 \text{ V}; \text{ R}_{L} = 5 \Omega; V_{GS} = 10 \text{ V};$	-	16	-	ns
r	rise time	$R_{G(ext)} = 4.7 \ \Omega; \ T_{j} = 25 \ ^{\circ}C$	-	16	-	ns
d(off)	turn-off delay time		-	39	-	ns
t _f	fall time		-	18	-	ns

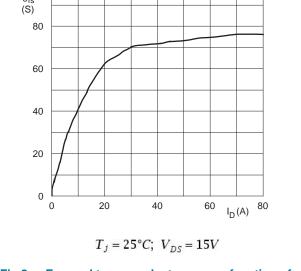
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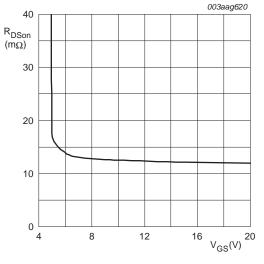
Table 7. Characteristics ...continued

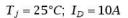
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Source-dra	ain diode					
V _{SD}	source-drain voltage	$I_{S} = 10 \text{ A}; V_{GS} = 0 \text{ V}; T_{j} = 25 \text{ °C}$	-	0.8	1.2	V
t _{rr}	reverse recovery time	$I_{S} = 10 \text{ A}; \text{ dI}_{S}/\text{dt} = -100 \text{ A}/\mu\text{s};$	-	54	-	ns
Qr	recovered charge	$V_{GS} = 0 V; V_{DS} = 50 V$	-	126	-	nC













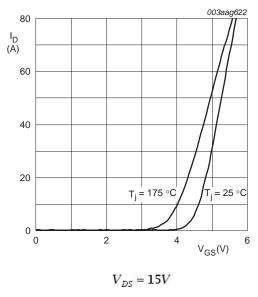
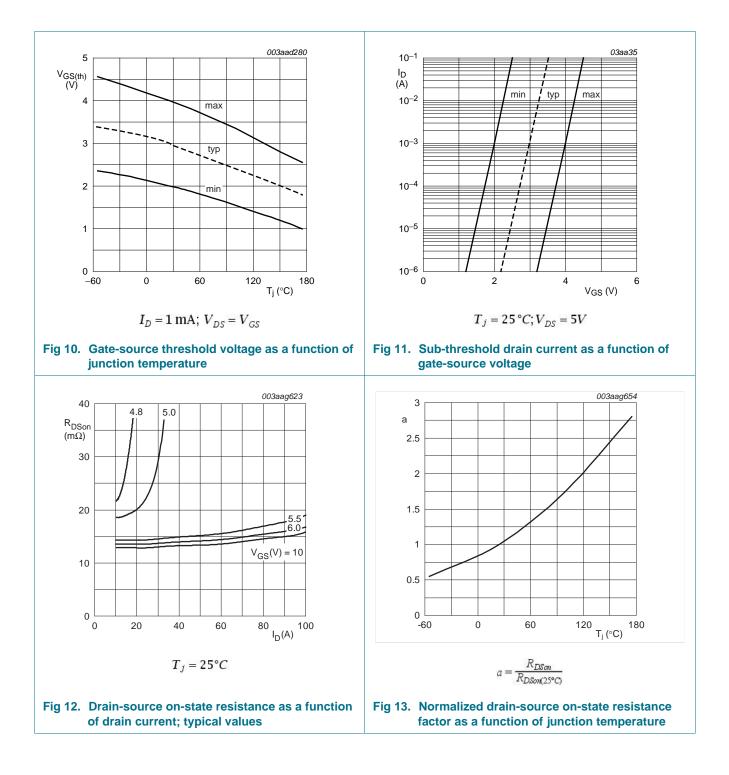


Fig 9. Transfer characteristics; drain current as a function of gate-source voltage; typical values

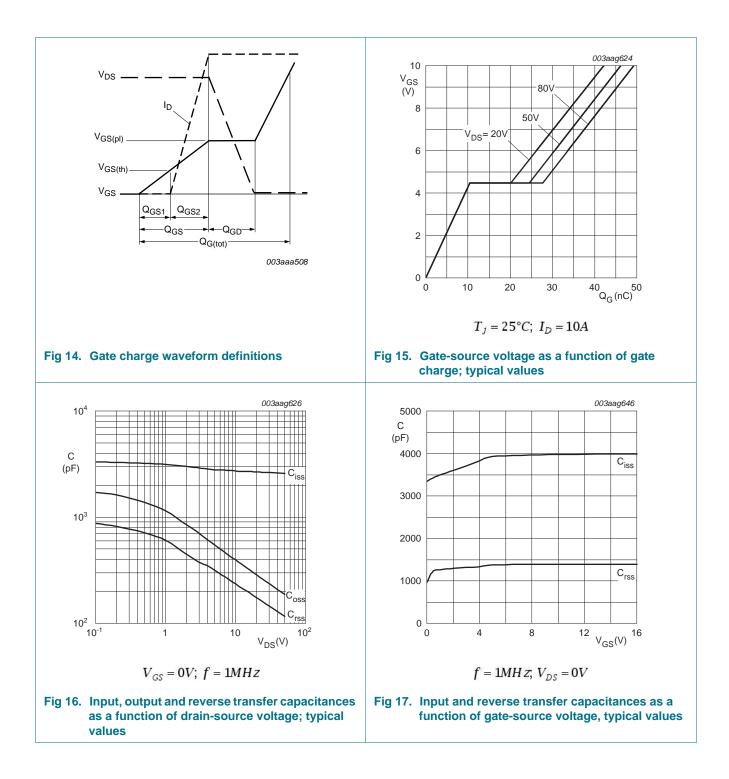
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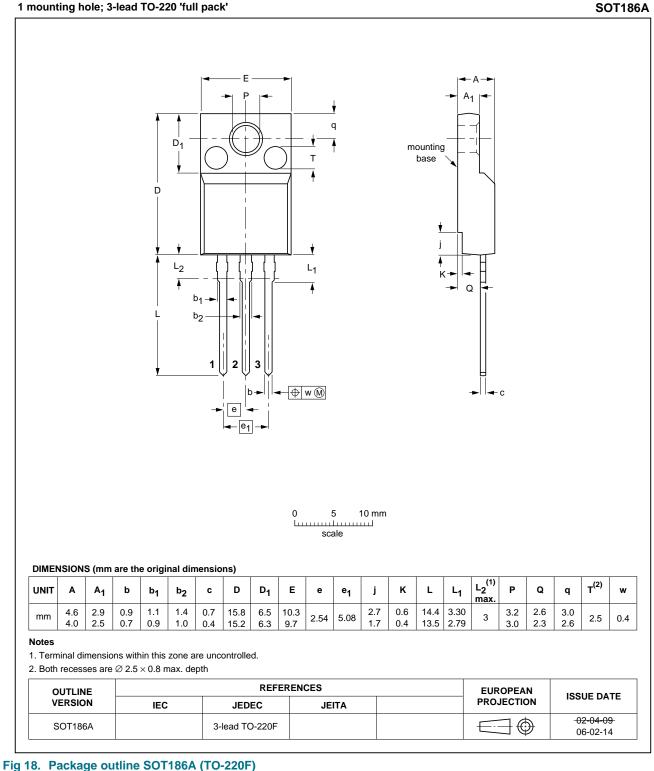
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Package outline 8.



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

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9. Revision history

Table 8. Revision h	istory			
Document ID	Release date	Data sheet status	Change notice	Supersedes
PSMN016-100XS v.4	20120306	Product data sheet	-	PSMN016-100XS v.3
Modifications:	 Status change 	d from preliminary to produc	x.	
	 Various chang 	es to content.		
PSMN016-100XS v.3	20111021	Preliminary data shee	t -	PSMN016-100XS v.2

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.
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