

# PSMN8R5-100XS

N-channel 100V 8.5 mΩ standard level MOSFET in TO220F (SOT186A)

29 November 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

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
$V_{DS}$	drain-source voltage	$T_j \geq 25 \text{ }^\circ\text{C}$ ; $T_j \leq 175 \text{ }^\circ\text{C}$		-	-	100	V
$I_D$	drain current	$T_{mb} = 25 \text{ }^\circ\text{C}$ ; $V_{GS} = 10 \text{ V}$ ; <a href="#">Fig. 1</a>		-	-	49	A
$P_{tot}$	total power dissipation	$T_{mb} = 25 \text{ }^\circ\text{C}$ ; <a href="#">Fig. 2</a>		-	-	55	W
<b>Static characteristics</b>							
$R_{DSon}$	drain-source on-state resistance	$V_{GS} = 10 \text{ V}$ ; $I_D = 10 \text{ A}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; <a href="#">Fig. 12</a> ; <a href="#">Fig. 13</a>		4.5	6.4	8.5	mΩ
		$V_{GS} = 10 \text{ V}$ ; $I_D = 10 \text{ A}$ ; $T_j = 100 \text{ }^\circ\text{C}$ ; <a href="#">Fig. 13</a>		-	11.18	14.9	mΩ
<b>Dynamic characteristics</b>							
$Q_{GD}$	gate-drain charge	$V_{GS} = 10 \text{ V}$ ; $I_D = 10 \text{ A}$ ; $V_{DS} = 50 \text{ V}$ ; <a href="#">Fig. 14</a> ; <a href="#">Fig. 15</a>		-	30	-	nC
$Q_{G(tot)}$	total gate charge			-	100	-	nC



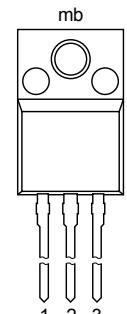
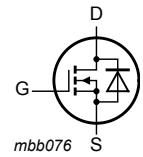
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Symbol	Parameter	Conditions		Min	Typ	Max	Unit
<b>Avalanche ruggedness</b>							
$E_{DS(AL)S}$	non-repetitive drain-source avalanche energy	$V_{GS} = 10$ V; $T_{j(init)} = 25$ °C; $I_D = 49$ A; $V_{sup} \leq 100$ V; unclamped; $R_{GS} = 50$ Ω; Fig. 3		-	-	439	mJ

## 2. Pinning information

Table 2. Pinning information

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

## 3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
PSMN8R5-100XS	TO-220F	plastic single-ended package; isolated heatsink mounted; 1 mounting hole; 3-lead TO-220 "full pack"	SOT186A

## 4. Marking

Table 4. Marking codes

Type number	Marking code
PSMN8R5-100XS	PSMN8R5-100XS

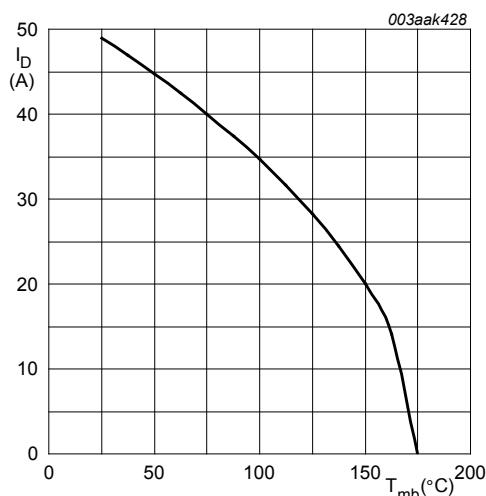
## 5. Limiting values

Table 5. Limiting values

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

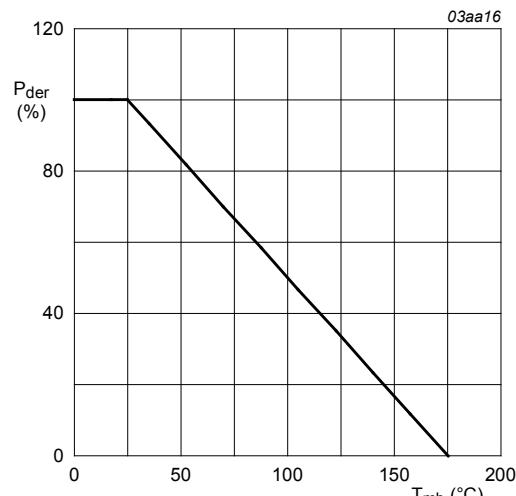
Symbol	Parameter	Conditions		Min	Max	Unit
$V_{DS}$	drain-source voltage	$T_j \geq 25$ °C; $T_j \leq 175$ °C		-	100	V

Symbol	Parameter	Conditions		Min	Max	Unit
$V_{DGR}$	drain-gate voltage	$T_j \geq 25^\circ\text{C}$ ; $T_j \leq 175^\circ\text{C}$ ; $R_{GS} = 20\text{ k}\Omega$		-	100	V
$V_{GS}$	gate-source voltage			-20	20	V
$I_D$	drain current	$V_{GS} = 10\text{ V}$ ; $T_{mb} = 25^\circ\text{C}$ ; <a href="#">Fig. 1</a>		-	49	A
		$V_{GS} = 10\text{ V}$ ; $T_{mb} = 100^\circ\text{C}$ ; <a href="#">Fig. 1</a>		-	34.6	A
$I_{DM}$	peak drain current	pulsed; $t_p \leq 10\text{ }\mu\text{s}$ ; $T_{mb} = 25^\circ\text{C}$ ; <a href="#">Fig. 4</a>		-	196	A
$P_{tot}$	total power dissipation	$T_{mb} = 25^\circ\text{C}$ ; <a href="#">Fig. 2</a>		-	55	W
$T_{stg}$	storage temperature			-55	175	°C
$T_j$	junction temperature			-55	175	°C
$T_{sld(M)}$	peak soldering temperature			-	260	°C
<b>Source-drain diode</b>						
$I_S$	source current	$T_{mb} = 25^\circ\text{C}$		-	46	A
$I_{SM}$	peak source current	pulsed; $t_p \leq 10\text{ }\mu\text{s}$ ; $T_{mb} = 25^\circ\text{C}$		-	196	A
<b>Avalanche ruggedness</b>						
$E_{DS(AL)S}$	non-repetitive drain-source avalanche energy	$V_{GS} = 10\text{ V}$ ; $T_{j(\text{init})} = 25^\circ\text{C}$ ; $I_D = 49\text{ A}$ ; $V_{sup} \leq 100\text{ V}$ ; unclamped; $R_{GS} = 50\Omega$ ; <a href="#">Fig. 3</a>		-	439	mJ



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

$$V_{GS} \geq 10\text{ V}$$



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

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

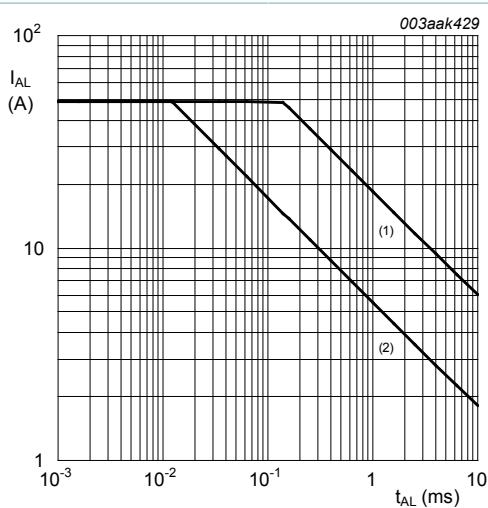


Fig. 3. Avalanche rating; avalanche current as a function of avalanche time

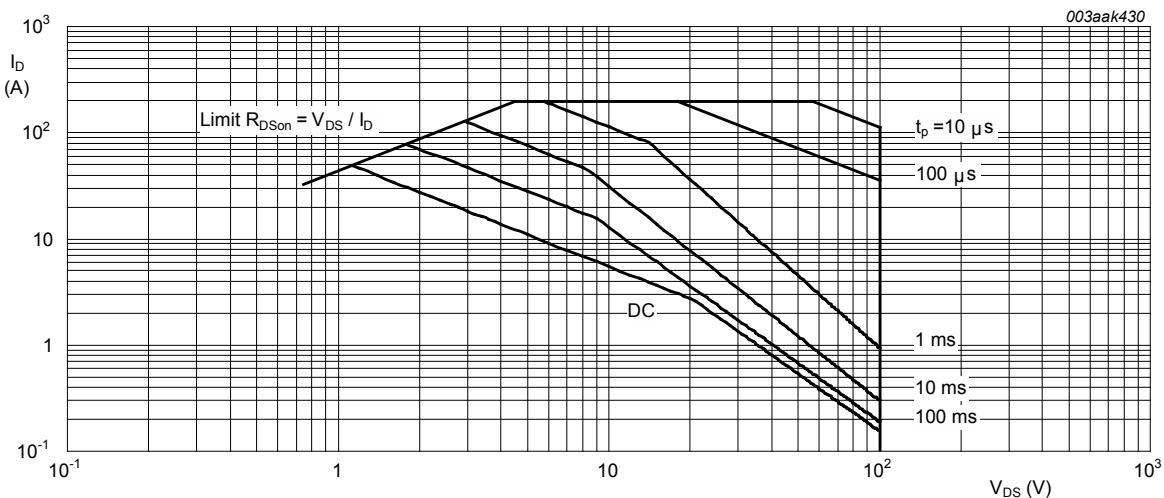
(1)  $T_j \text{ (init)} = 25^\circ\text{C}$ ; (2)  $T_j \text{ (init)} = 130^\circ\text{C}$ 

Fig. 4. Safe operating area; continuous and peak drain currents as a function of drain-source voltage

 $T_{mb} = 25^\circ\text{C}$ ;  $I_{DM}$  is a single pulse

## 6. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
$R_{th(j-mb)}$	thermal resistance from junction to mounting base	<a href="#">Fig. 5</a>		-	2.5	2.73	K/W
$R_{th(j-a)}$	thermal resistance from junction to ambient	vertical in free air		-	55	-	K/W

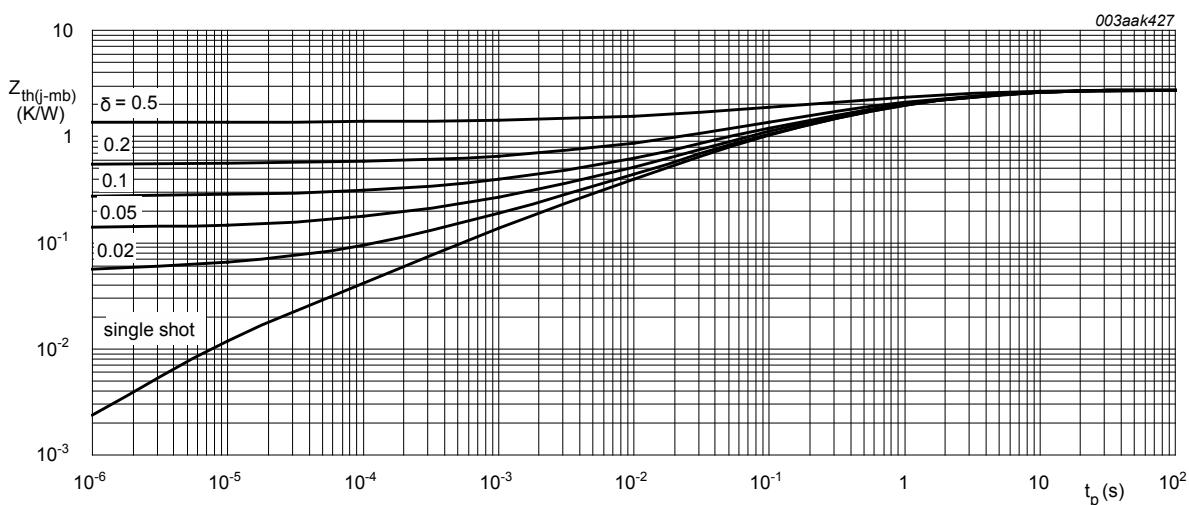


Fig. 5. Transient thermal impedance from junction to mounting base as a function of pulse duration

## 7. Isolation characteristics

Table 7. Isolation characteristics

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

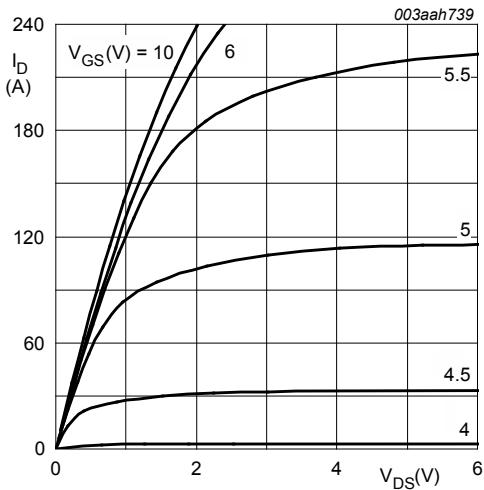
[1]  $f = 1$  MHz

## 8. Characteristics

Table 8. Characteristics

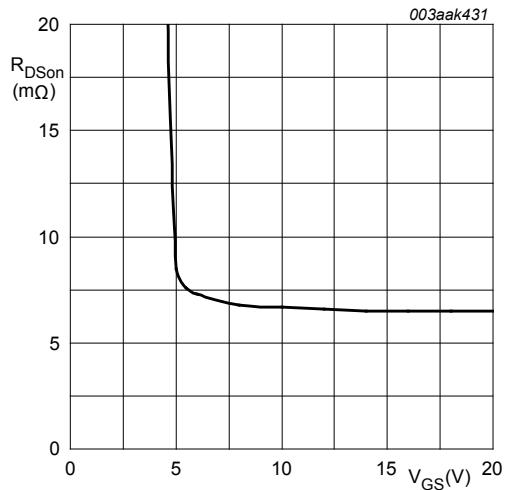
Symbol	Parameter	Conditions		Min	Typ	Max	Unit
<b>Static characteristics</b>							
$V_{(\text{BR})\text{DSS}}$	drain-source breakdown voltage	$I_D = 250 \mu\text{A}$ ; $V_{GS} = 0$ V; $T_j = 25$ °C		100	-	-	V
		$I_D = 250 \mu\text{A}$ ; $V_{GS} = 0$ V; $T_j = -55$ °C		90	-	-	V
$V_{GS(\text{th})}$	gate-source threshold voltage	$I_D = 1$ mA; $V_{DS} = V_{GS}$ ; $T_j = 25$ °C; <a href="#">Fig. 10</a> ; <a href="#">Fig. 11</a>		2.4	3	4	V
		$I_D = 1$ mA; $V_{DS} = V_{GS}$ ; $T_j = 175$ °C; <a href="#">Fig. 10</a>		1	-	-	V
		$I_D = 1$ mA; $V_{DS} = V_{GS}$ ; $T_j = -55$ °C; <a href="#">Fig. 10</a>		-	-	4.5	V
$I_{\text{DSS}}$	drain leakage current	$V_{DS} = 100$ V; $V_{GS} = 0$ V; $T_j = 25$ °C		-	0.02	1	μA
		$V_{DS} = 100$ V; $V_{GS} = 0$ V; $T_j = 100$ °C		-	-	20	μA

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
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		-	2	100	nA
		V <sub>GS</sub> = -20 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C		-	2	100	nA
R <sub>DSon</sub>	drain-source on-state resistance	V <sub>GS</sub> = 10 V; I <sub>D</sub> = 10 A; T <sub>j</sub> = 25 °C; <a href="#">Fig. 12</a> ; <a href="#">Fig. 13</a>	4.5	6.4	8.5		mΩ
		V <sub>GS</sub> = 10 V; I <sub>D</sub> = 10 A; T <sub>j</sub> = 100 °C; <a href="#">Fig. 13</a>		-	11.18	14.9	mΩ
		V <sub>GS</sub> = 10 V; I <sub>D</sub> = 10 A; T <sub>j</sub> = 175 °C; <a href="#">Fig. 13</a>		-	16.95	22.6	mΩ
R <sub>G</sub>	internal gate resistance (AC)	f = 1 MHz		0.36	0.71	1.42	Ω
<b>Dynamic characteristics</b>							
Q <sub>G(tot)</sub>	total gate charge	I <sub>D</sub> = 10 A; V <sub>DS</sub> = 50 V; V <sub>GS</sub> = 10 V; <a href="#">Fig. 14</a> ; <a href="#">Fig. 15</a>		-	100	-	nC
Q <sub>GS</sub>	gate-source charge			-	19	-	nC
Q <sub>GS(th)</sub>	pre-threshold gate-source charge			-	14	-	nC
Q <sub>GS(th-pl)</sub>	post-threshold gate-source charge			-	5	-	nC
Q <sub>GD</sub>	gate-drain charge			-	30	-	nC
V <sub>GS(pl)</sub>	gate-source plateau voltage	I <sub>D</sub> = 10 A; V <sub>DS</sub> = 50 V; <a href="#">Fig. 14</a> ; <a href="#">Fig. 15</a>		-	4	-	V
C <sub>iss</sub>	input capacitance	V <sub>DS</sub> = 50 V; V <sub>GS</sub> = 0 V; f = 1 MHz; T <sub>j</sub> = 25 °C; <a href="#">Fig. 16</a> ; <a href="#">Fig. 17</a>		-	5512	-	pF
C <sub>oss</sub>	output capacitance	V <sub>DS</sub> = 50 V; V <sub>GS</sub> = 0 V; f = 1 MHz; T <sub>j</sub> = 25 °C; <a href="#">Fig. 16</a>		-	380	-	pF
C <sub>rss</sub>	reverse transfer capacitance	V <sub>DS</sub> = 50 V; V <sub>GS</sub> = 0 V; f = 1 MHz; T <sub>j</sub> = 25 °C; <a href="#">Fig. 16</a> ; <a href="#">Fig. 17</a>		-	256	-	pF
t <sub>d(on)</sub>	turn-on delay time	V <sub>DS</sub> = 50 V; R <sub>L</sub> = 5 Ω; V <sub>GS</sub> = 10 V; R <sub>G(ext)</sub> = 5 Ω; T <sub>j</sub> = 25 °C		-	21.5	-	ns
t <sub>r</sub>	rise time			-	30	-	ns
t <sub>d(off)</sub>	turn-off delay time			-	83	-	ns
t <sub>f</sub>	fall time			-	40	-	ns
<b>Source-drain diode</b>							
V <sub>SD</sub>	source-drain voltage	I <sub>S</sub> = 10 A; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C; <a href="#">Fig. 18</a>		-	0.77	1.2	V
t <sub>rr</sub>	reverse recovery time	I <sub>S</sub> = 10 A; dI <sub>S</sub> /dt = -100 A/μs; V <sub>GS</sub> = 0 V; V <sub>DS</sub> = 50 V		-	53	-	ns
Q <sub>r</sub>	recovered charge			-	124	-	nC



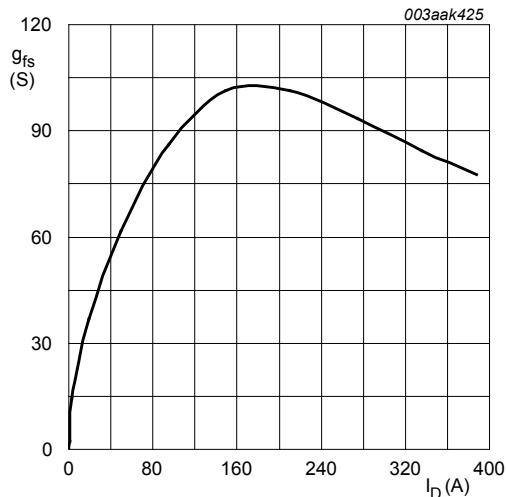
$T_j = 25^\circ\text{C}$ ;  $t_p = 300 \mu\text{s}$

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



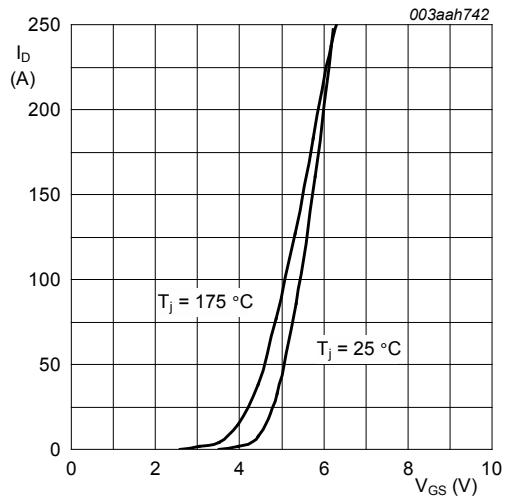
**Fig. 7. Drain-source on-state resistance as a function of gate-source voltage; typical values**

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



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

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



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

$V_{DS} = 10\text{V}$

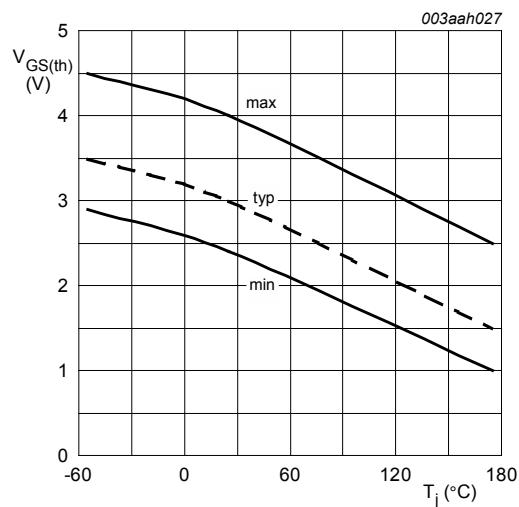


Fig. 10. Gate-source threshold voltage as a function of junction temperature

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

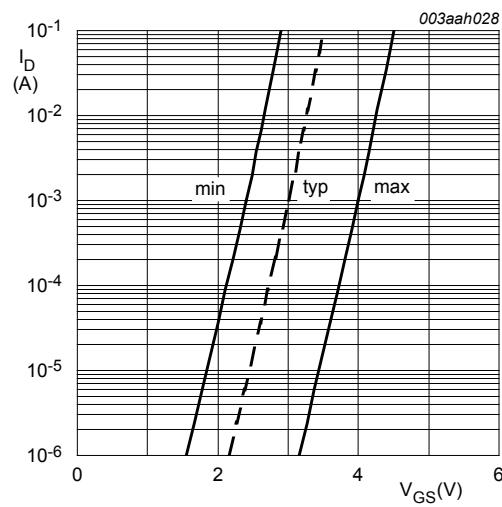


Fig. 11. Sub-threshold drain current as a function of gate-source voltage

$T_j = 25$  °C;  $V_{DS} = 5$  V

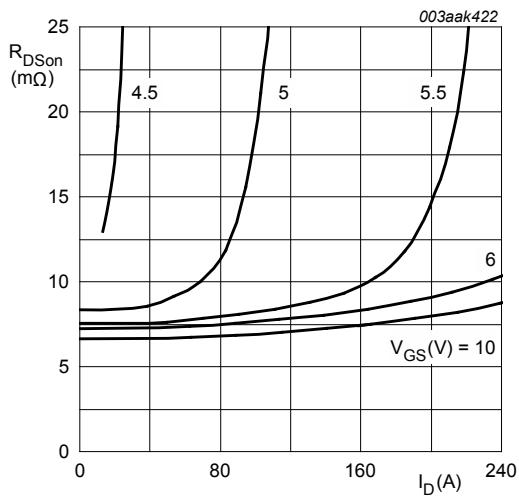


Fig. 12. Drain-source on-state resistance as a function of drain current; typical values

$T_j = 25$  °C

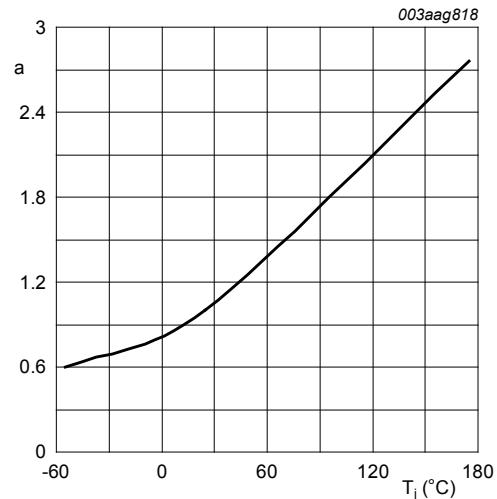


Fig. 13. Normalized drain-source on-state resistance factor as a function of junction temperature

$$a = \frac{R_{DSon}}{R_{DSon}(25 \text{ } ^\circ\text{C})}$$

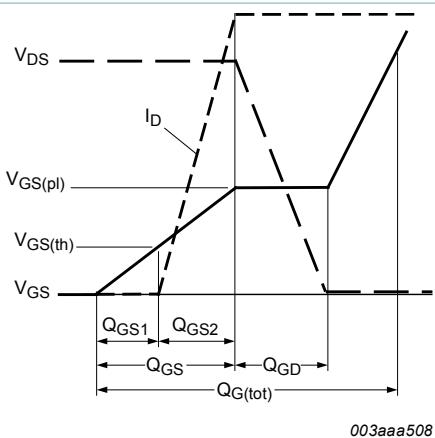


Fig. 14. Gate charge waveform definitions

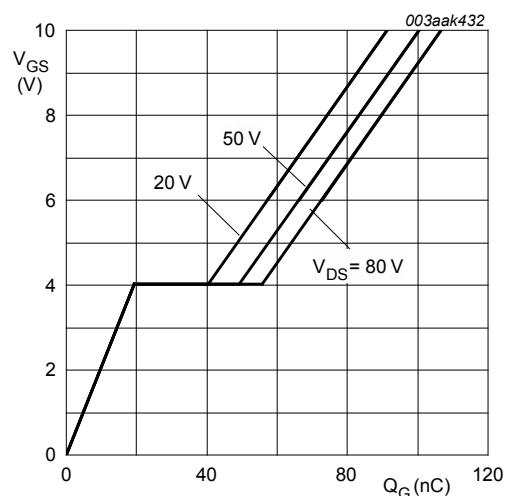


Fig. 15. Gate-source voltage as a function of gate charge; typical values

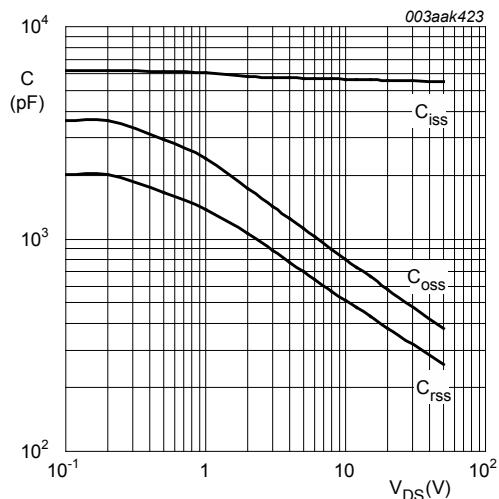
 $T_J = 25^\circ\text{C}; I_D = 10\text{A}$ 


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

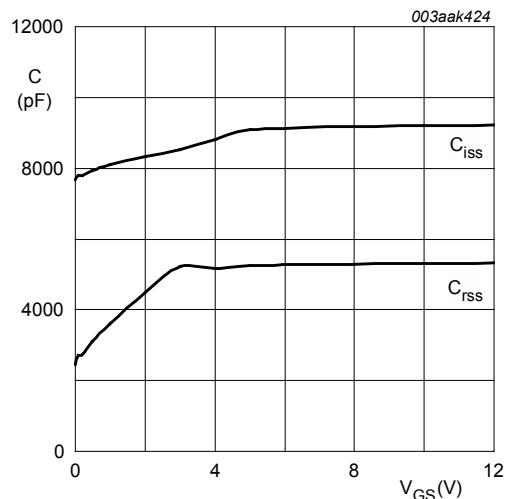
 $V_{GS} = 0\text{V}; f = 1\text{MHz}$ 


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

 $f = 1\text{ MHz}; V_{DS} = 0\text{ V}$

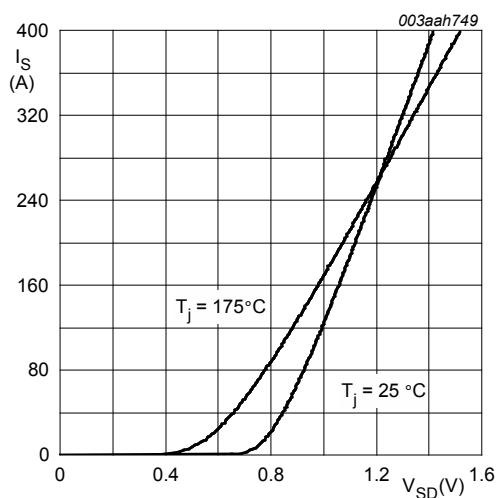


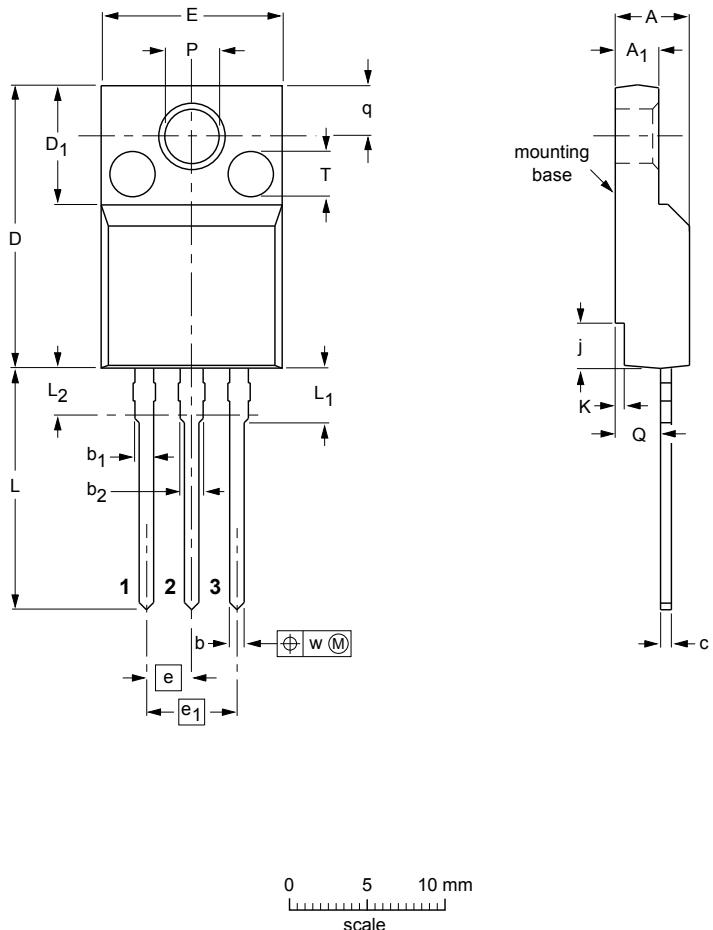
Fig. 18. Source (diode forward) current as a function of source-drain (diode forward) voltage; typical values

$V_{GS} = 0V$

## 9. Package outline

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

SOT186A



### DIMENSIONS (mm are the original dimensions)

UNIT	A	A <sub>1</sub>	b	b <sub>1</sub>	b <sub>2</sub>	c	D	D <sub>1</sub>	E	e	e <sub>1</sub>	j	K	L	L <sub>1</sub>	L <sub>2</sub> <sup>(1)</sup> max.	P	Q	q	T <sup>(2)</sup>	w
mm	4.6	2.9	0.9	1.1	1.4	0.7	15.8	6.5	10.3	2.54	5.08	2.7	0.6	14.4	3.30	3	3.2	2.6	3.0	2.5	0.4
	4.0	2.5	0.7	0.9	1.0	0.4	15.2	6.3	9.7	2.54	5.08	1.7	0.4	13.5	2.79	3.0	3.0	2.3	2.6	2.5	0.4

### Notes

1. Terminal dimensions within this zone are uncontrolled.
2. Both recesses are # 2.5 × 0.8 max. depth

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

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

## 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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Date of release: 29 November 2012

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