



# PHC2300

## Complementary enhancement mode MOS transistors

Rev. 05 — 24 February 2011

Product data sheet

## 1. Product profile

### 1.1 General description

One N-channel and one P-channel enhancement mode Field-Effect Transistor (FET) in a plastic package. This product is designed and qualified for use in computing, communications, consumer and industrial applications only.

### 1.2 Features and benefits

- Suitable for high frequency applications due to fast switching characteristics

### 1.3 Applications

- High-speed line drivers
- Line transformer drivers
- Relay drivers
- Universal line interface in telephone sets

### 1.4 Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$V_{DS}$	drain-source voltage	$T_j \geq 25\text{ °C}; T_j \leq 150\text{ °C};$ N-channel	-	-	300	V
		$T_j \geq 25\text{ °C}; T_j \leq 150\text{ °C};$ P-channel	-	-	-300	V
$I_D$	drain current	$T_{sp} = 80\text{ °C};$ N-channel	[1]	-	340	mA
		$T_{sp} = 80\text{ °C};$ P-channel	[1]	-	-235	mA
$P_{tot}$	total power dissipation	$T_{sp} = 80\text{ °C}$	[2]	-	1.6	W
<b>Static characteristics</b>						
$R_{DS(on)}$	drain-source on-state resistance	$V_{GS} = 10\text{ V}; I_D = 170\text{ mA};$ $T_j = 25\text{ °C};$ N-channel	-	-	6	$\Omega$
		$V_{GS} = -10\text{ V}; I_D = -115\text{ mA};$ $T_j = 25\text{ °C};$ P-channel	-	-	17	$\Omega$

Table 1. Quick reference data ...continued

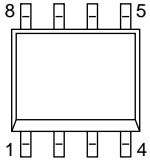
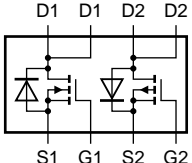
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
<b>Dynamic characteristics</b>						
$Q_{GD}$	gate-drain charge	$V_{GS} = -10\text{ V}$ ; $I_D = -115\text{ mA}$ ; $V_{DS} = -50\text{ V}$ ; $T_j = 25\text{ °C}$ ; P-channel	-	674	-	pC
		$V_{GS} = 10\text{ V}$ ; $I_D = 170\text{ mA}$ ; $V_{DS} = 50\text{ V}$ ; $T_j = 25\text{ °C}$ ; N-channel	-	1385	-	pC

[1] Solder point temperature is the temperature at the soldering point of the drain leads.

[2] Maximum permissible dissipation per MOS transistor (both devices may thus be loaded up to 1.6 W at the same time).

## 2. Pinning information

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	S1	source1	 <p>SOT96-1 (SO8)</p>	 <p>sym114</p>
2	G1	gate1		
3	S2	source2		
4	G2	gate2		
5	D2	drain2		
6	D2	drain2		
7	D1	drain1		
8	D1	drain1		

## 3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
PHC2300	SO8	plastic small outline package; 8 leads; body width 3.9 mm	SOT96-1

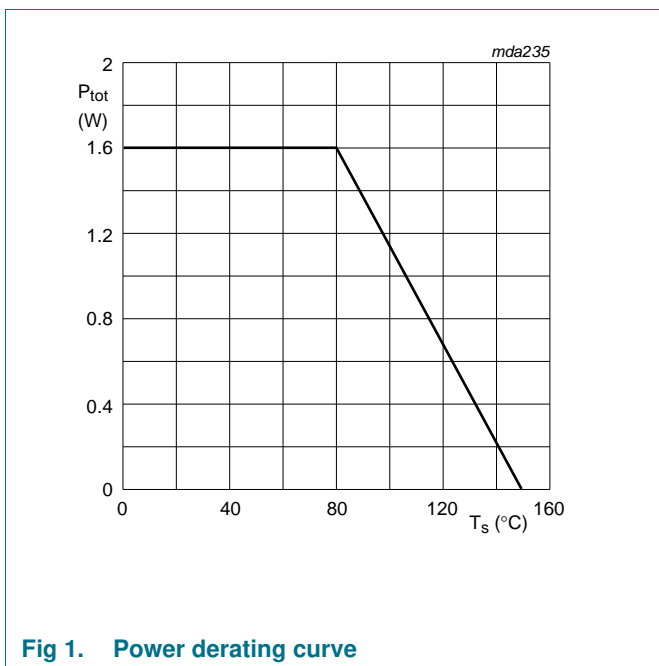
## 4. Limiting values

**Table 4. Limiting values**

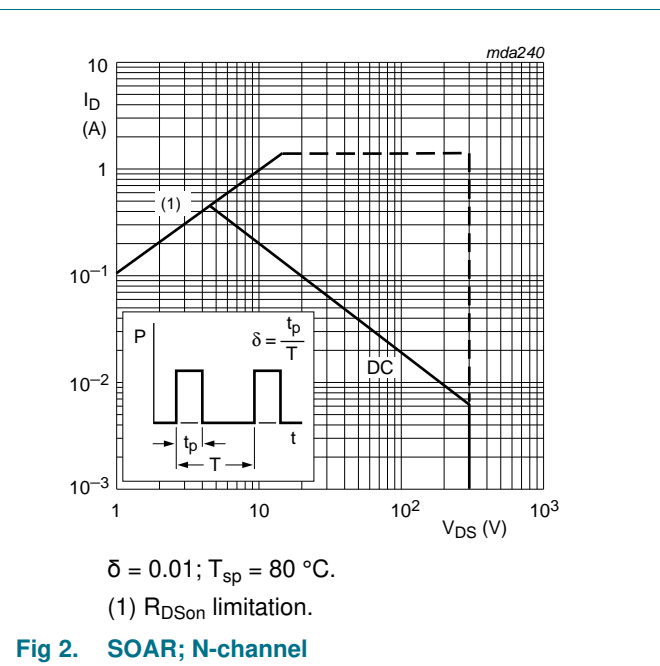
In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Max	Unit
$V_{DS}$	drain-source voltage	$T_j \geq 25\text{ °C}; T_j \leq 150\text{ °C};$ N-channel	-	300	V
		$T_j \geq 25\text{ °C}; T_j \leq 150\text{ °C};$ P-channel	-	-300	V
$V_{GS}$	gate-source voltage		-20	20	V
$I_D$	drain current	$T_{sp} = 80\text{ °C};$ N-channel	[1]	340	mA
		$T_{sp} = 80\text{ °C};$ P-channel	[1]	-235	mA
$I_{DM}$	peak drain current	$T_{sp} = 25\text{ °C};$ pulsed; N-channel	[2]	1.4	A
		$T_{sp} = 25\text{ °C};$ pulsed; P-channel	[2]	-0.9	A
$P_{tot}$	total power dissipation	$T_{sp} = 80\text{ °C}$	[3]	1.6	W
		$T_{amb} = 25\text{ °C}$	[4]	1.8	W
		$T_{amb} = 25\text{ °C}$	[5]	0.9	W
		$T_{amb} = 25\text{ °C}$	[6]	1.2	W
$T_{stg}$	storage temperature		-55	150	°C
$T_j$	junction temperature		-55	150	°C

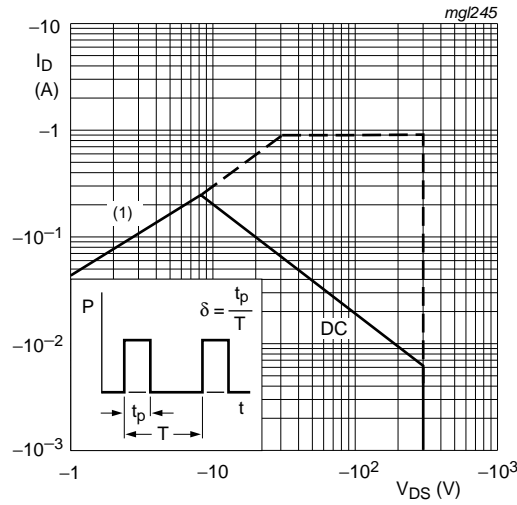
- [1] Solder point temperature is the temperature at the soldering point of the drain leads.
- [2] Pulse width and duty cycle limited by maximum junction temperature.
- [3] Maximum permissible dissipation per MOS transistor (both devices may thus be loaded up to 1.6 W at the same time).
- [4] Maximum permissible dissipation per MOS transistor. Value based on a printed-circuit board with an  $R_{th(a-tp)}$  (ambient to tie-point) of 27.5 K/W.
- [5] Maximum permissible dissipation per MOS transistor. Value based on a printed-circuit board with an  $R_{th(a-tp)}$  (ambient to tie-point) of 90 K/W.
- [6] Maximum permissible dissipation if only one MOS transistor dissipates. Value based on a printed-circuit board with an  $R_{th(a-tp)}$  (ambient to tie-point) of 90 K/W.



**Fig 1. Power derating curve**



**Fig 2. SOAR; N-channel**



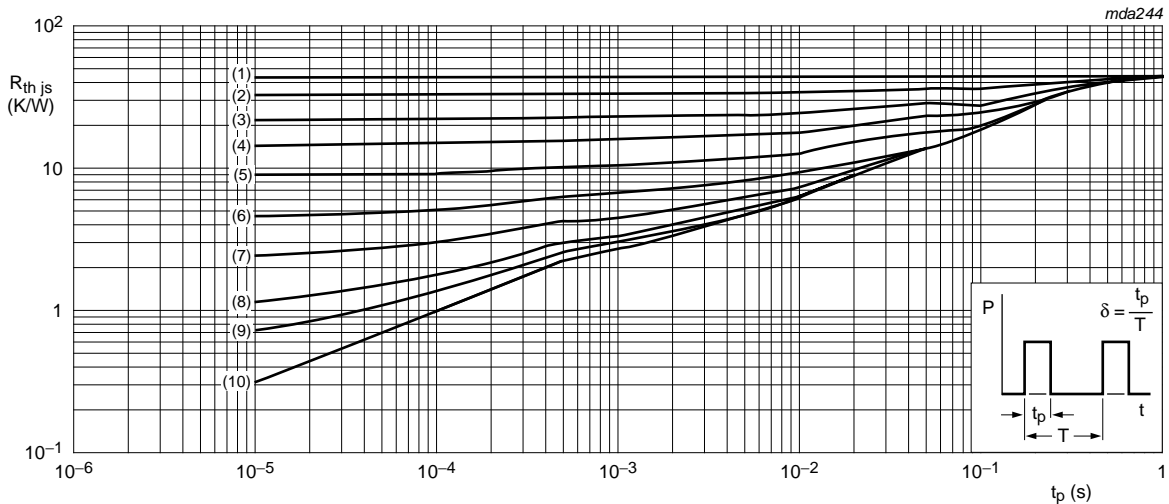
$\delta = 0.01$ ;  $T_{sp} = 80\text{ }^{\circ}\text{C}$ .  
 (1)  $R_{DSon}$  limitation.

Fig 3. SOAR; P-channel

### 5. Thermal characteristics

Table 5. Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$R_{th(j-sp)}$	thermal resistance from junction to solder point		-	-	43	K/W



(1)  $\delta = 1.00$ . (2)  $\delta = 0.75$ . (3)  $\delta = 0.5$ . (4)  $\delta = 0.33$ . (5)  $\delta = 0.2$ .  
 (6)  $\delta = 0.1$ . (7)  $\delta = 0.05$ . (8)  $\delta = 0.02$ . (9)  $\delta = 0.01$ . (10)  $\delta = 0$ .

Fig 4. Transient thermal resistance from junction to soldering point as a function of pulse time for N- and P-channel; typical values

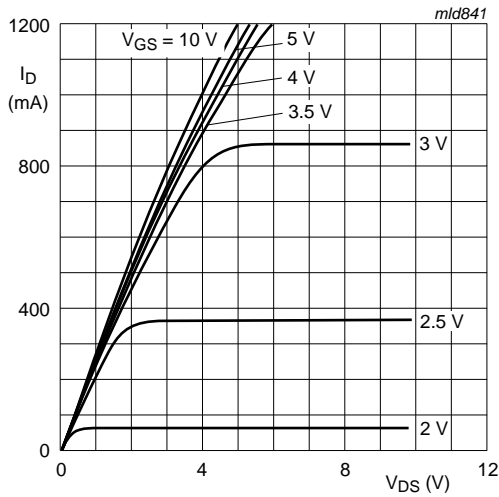
## 6. Characteristics

Table 6. Characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
<b>Static characteristics</b>						
$V_{(BR)DSS}$	drain-source breakdown voltage	$I_D = -10 \mu\text{A}$ ; $V_{GS} = 0 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-300	-	-	V
		$I_D = 10 \mu\text{A}$ ; $V_{GS} = 0 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	300	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	$I_D = 1 \text{ mA}$ ; $V_{DS} = V_{GS}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	0.8	-	2	V
		$I_D = -1 \text{ mA}$ ; $V_{DS} = V_{GS}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-0.8	-	-2	V
$I_{DSS}$	drain leakage current	$V_{DS} = -240 \text{ V}$ ; $V_{GS} = 0 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-	-	-100	nA
		$V_{DS} = 240 \text{ V}$ ; $V_{GS} = 0 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	-	-	100	nA
$I_{GSS}$	gate leakage current	$V_{GS} = 20 \text{ V}$ ; $V_{DS} = 0 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	-	-	100	nA
		$V_{GS} = -20 \text{ V}$ ; $V_{DS} = 0 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	-	-	100	nA
		$V_{GS} = 20 \text{ V}$ ; $V_{DS} = 0 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-	-	100	nA
		$V_{GS} = -20 \text{ V}$ ; $V_{DS} = 0 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-	-	100	nA
$R_{DS(on)}$	drain-source on-state resistance	$V_{GS} = 10 \text{ V}$ ; $I_D = 170 \text{ mA}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	-	-	6	$\Omega$
		$V_{GS} = -10 \text{ V}$ ; $I_D = -115 \text{ mA}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-	-	17	$\Omega$
<b>Dynamic characteristics</b>						
$Q_{G(tot)}$	total gate charge	$I_D = 170 \text{ mA}$ ; $V_{DS} = 50 \text{ V}$ ; $V_{GS} = 10 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	-	6240	-	pC
		$I_D = -115 \text{ mA}$ ; $V_{DS} = -50 \text{ V}$ ; $V_{GS} = -10 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-	2137	-	pC
$Q_{GS}$	gate-source charge	$I_D = 170 \text{ mA}$ ; $V_{DS} = 50 \text{ V}$ ; $V_{GS} = 10 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	-	226	-	pC
		$I_D = -115 \text{ mA}$ ; $V_{DS} = -50 \text{ V}$ ; $V_{GS} = -10 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-	68	-	pC
$Q_{GD}$	gate-drain charge	$I_D = 170 \text{ mA}$ ; $V_{DS} = 50 \text{ V}$ ; $V_{GS} = 10 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	-	1385	-	pC
		$I_D = -115 \text{ mA}$ ; $V_{DS} = -50 \text{ V}$ ; $V_{GS} = -10 \text{ V}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-	674	-	pC
$C_{iss}$	input capacitance	$V_{DS} = 50 \text{ V}$ ; $V_{GS} = 0 \text{ V}$ ; $f = 1 \text{ MHz}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	-	102	-	pF
		$V_{DS} = -50 \text{ V}$ ; $V_{GS} = 0 \text{ V}$ ; $f = 1 \text{ MHz}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-	45	-	pF
$C_{oss}$	output capacitance	$V_{DS} = 50 \text{ V}$ ; $V_{GS} = 0 \text{ V}$ ; $f = 1 \text{ MHz}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; N-channel	-	15	-	pF
		$V_{DS} = -50 \text{ V}$ ; $V_{GS} = 0 \text{ V}$ ; $f = 1 \text{ MHz}$ ; $T_j = 25 \text{ }^\circ\text{C}$ ; P-channel	-	15	-	pF

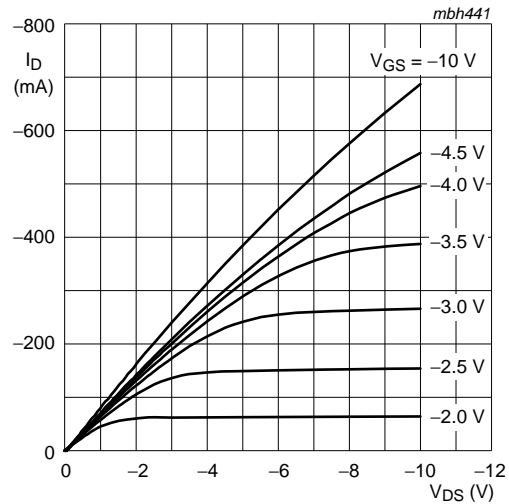
Table 6. Characteristics ...continued

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$C_{rss}$	reverse transfer capacitance	$V_{DS} = 50\text{ V}; V_{GS} = 0\text{ V}; f = 1\text{ MHz}; T_j = 25\text{ }^\circ\text{C}; \text{N-channel}$	-	7.3	-	pF
		$V_{DS} = -50\text{ V}; V_{GS} = 0\text{ V}; f = 1\text{ MHz}; T_j = 25\text{ }^\circ\text{C}; \text{P-channel}$	-	3	-	pF
$t_{on}$	turn-on time	$V_{DS} = 50\text{ V}; V_{GS} = 10\text{ V}; I_D = 170\text{ mA}; T_j = 25\text{ }^\circ\text{C}; \text{N-channel}$	-	7	12	ns
		$V_{DS} = -50\text{ V}; V_{GS} = -10\text{ V}; I_D = -115\text{ mA}; T_j = 25\text{ }^\circ\text{C}; \text{P-channel}$	-	4	10	ns
$t_{off}$	turn-off time	$V_{DS} = 50\text{ V}; V_{GS} = 10\text{ V}; T_j = 25\text{ }^\circ\text{C}; I_D = 170\text{ mA}; \text{N-channel}$	-	53	65	ns
		$V_{DS} = -50\text{ V}; V_{GS} = -10\text{ V}; T_j = 25\text{ }^\circ\text{C}; I_D = -115\text{ mA}; \text{P-channel}$	-	25	35	ns



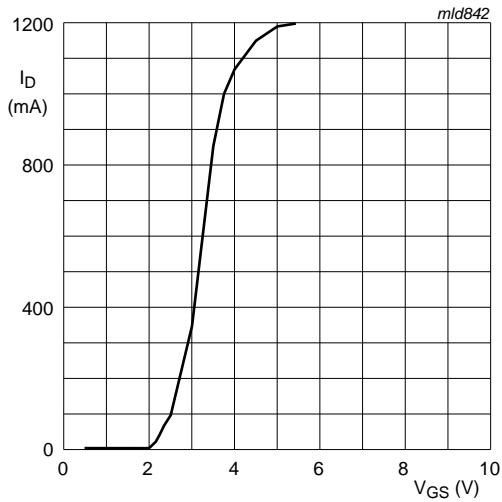
$T_{amb} = 25\text{ }^\circ\text{C}; t_p = 80\text{ }\mu\text{s}; \delta = 0.$

Fig 5. Output characteristics: drain current as a function of drain-source voltage; N-channel; typical values



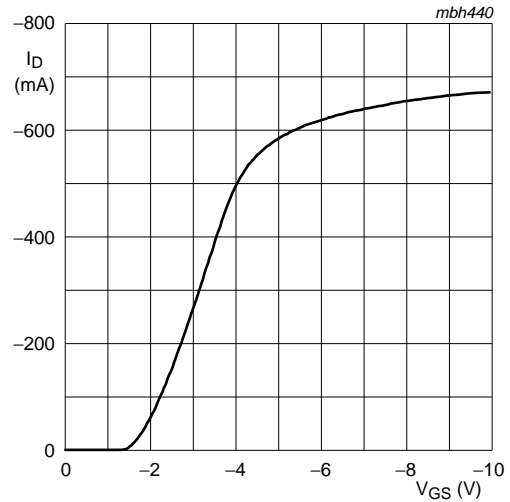
$T_{amb} = 25\text{ }^\circ\text{C}; t_p = 80\text{ }\mu\text{s}; \delta = 0.$

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



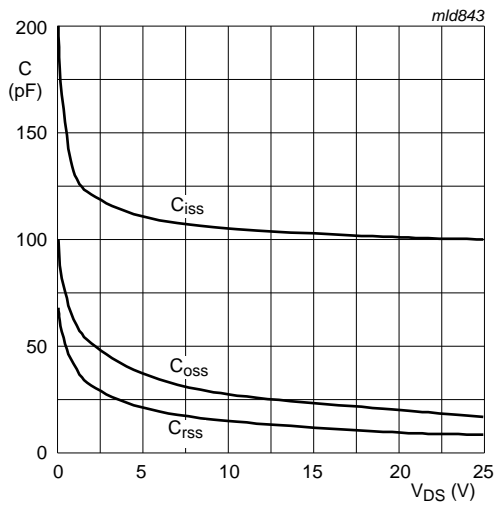
$V_{DS} = 10\text{ V}; T_{amb} = 25\text{ }^{\circ}\text{C}; t_p = 80\text{ }\mu\text{s}; \delta = 0.$

**Fig 7. Transfer characteristics: drain current as a function of gate-source voltage; N-channel; typical values**



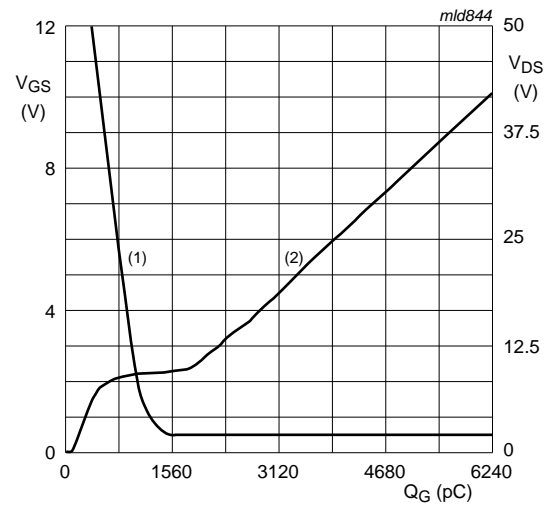
$V_{DS} = -10\text{ V}; T_{amb} = 25\text{ }^{\circ}\text{C}; t_p = 80\text{ }\mu\text{s}; \delta = 0.$

**Fig 8. Transfer characteristics: drain current as a function of gate-source voltage; P-channel; typical values**



$T_{amb} = 25\text{ }^{\circ}\text{C}; f = 1\text{ MHz}$

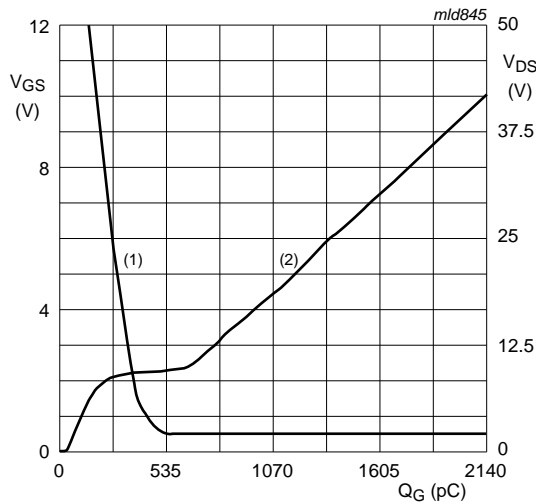
**Fig 9. Input, output and reverse transfer capacitances as a function of drain-source voltage; N-channel; typical values**



$V_{DS} = 50\text{ V}; I_D = 170\text{ mA}; T_{amb} = 25\text{ }^{\circ}\text{C}.$

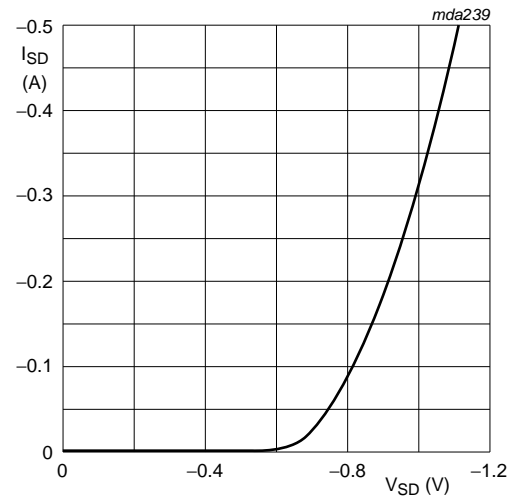
(1)  $V_{DS}$   
(2)  $V_{GS}$

**Fig 10. Gate-source voltage and drain-source voltage as a function of gate charge; N-channel typical values**



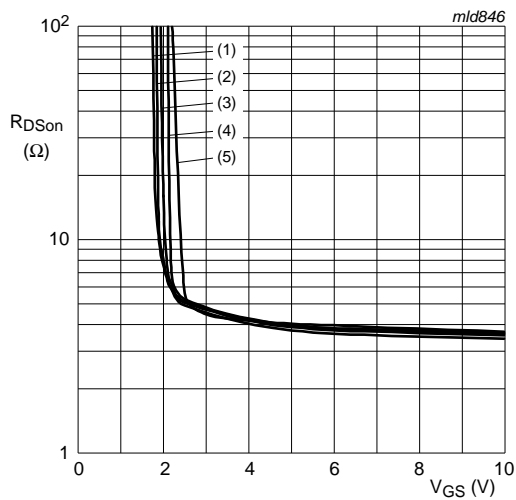
$V_{DS} = -50\text{ V}$ ;  $I_D = -115\text{ mA}$ ;  $T_{amb} = 25\text{ }^\circ\text{C}$ .  
 (1)  $V_{DS}$   
 (2)  $V_{GS}$

**Fig 11. Gate-source voltage and drain-source voltage as a function of gate charge; P-channel typical values**



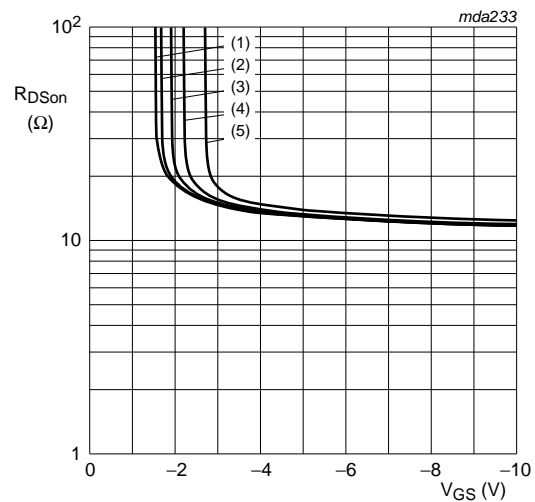
$V_{GD} = 0\text{ V}$

**Fig 12. Source current as a function of source-drain voltage; P-channel typical values**



$V_{DS} \geq I_D \times R_{DSon}$ ;  $T_{amb} = 25\text{ }^\circ\text{C}$ ;  $t_p = 300\text{ }\mu\text{s}$ ;  $\delta = 0$ .  
 (1)  $I_D = 10\text{ mA}$ .  
 (2)  $I_D = 20\text{ mA}$ .  
 (3)  $I_D = 50\text{ mA}$ .  
 (4)  $I_D = 100\text{ mA}$ .  
 (5)  $I_D = 200\text{ mA}$ .

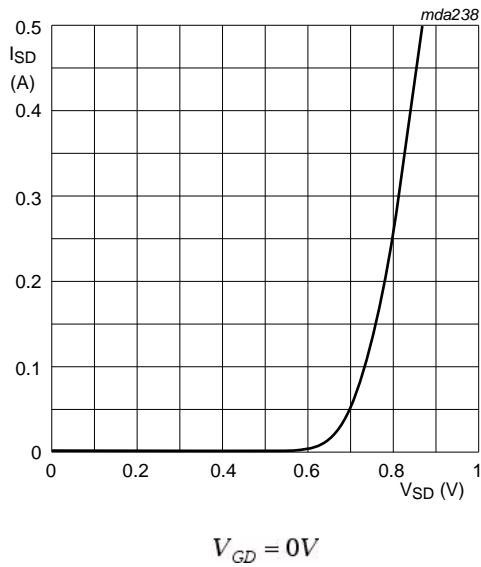
**Fig 13. Drain-source on-state resistance as a function of gate-source voltage; N-channel typical values**



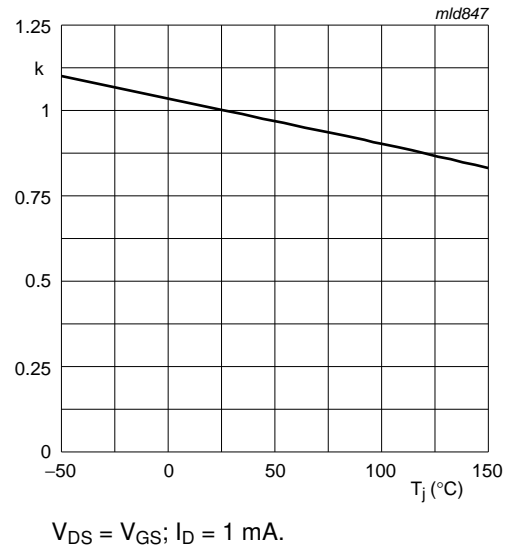
$V_{DS} \geq I_D \times R_{DSon}$ ;  $T_{amb} = 25\text{ }^\circ\text{C}$ ;  $t_p = 300\text{ }\mu\text{s}$ ;  $\delta = 0$ .  
 (1)  $I_D = -10\text{ mA}$ .  
 (2)  $I_D = -20\text{ mA}$ .  
 (3)  $I_D = -50\text{ mA}$ .  
 (4)  $I_D = -100\text{ mA}$ .  
 (5)  $I_D = -200\text{ mA}$ .

**Fig 14. Drain-source on-state resistance as a function of gate-source voltage; P-channel typical values**

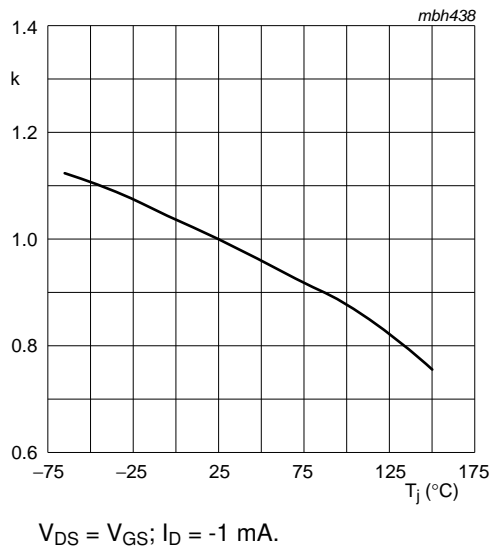




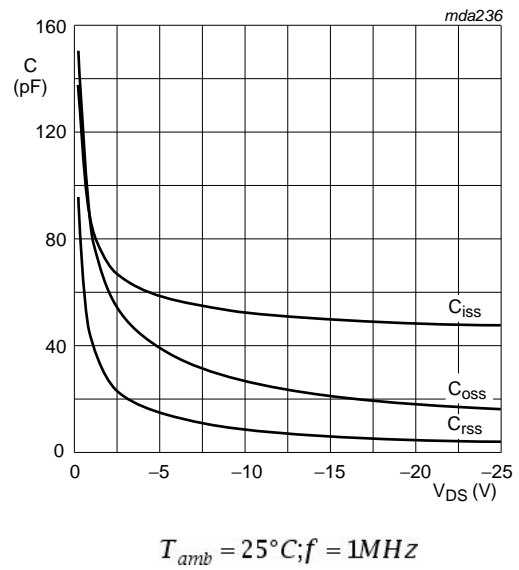
**Fig 15. Source-drain current as a function of source-drain diode voltage; N-channel; typical values**



**Fig 16. Temperature coefficient of gate-source threshold voltage as a function temperature; N-channel; typical values**



**Fig 17. Temperature coefficient of gate-source threshold voltage as a function temperature; P-channel; typical values**



**Fig 18. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values**

## 7. Package outline

SO8: plastic small outline package; 8 leads; body width 3.9 mm

SOT96-1

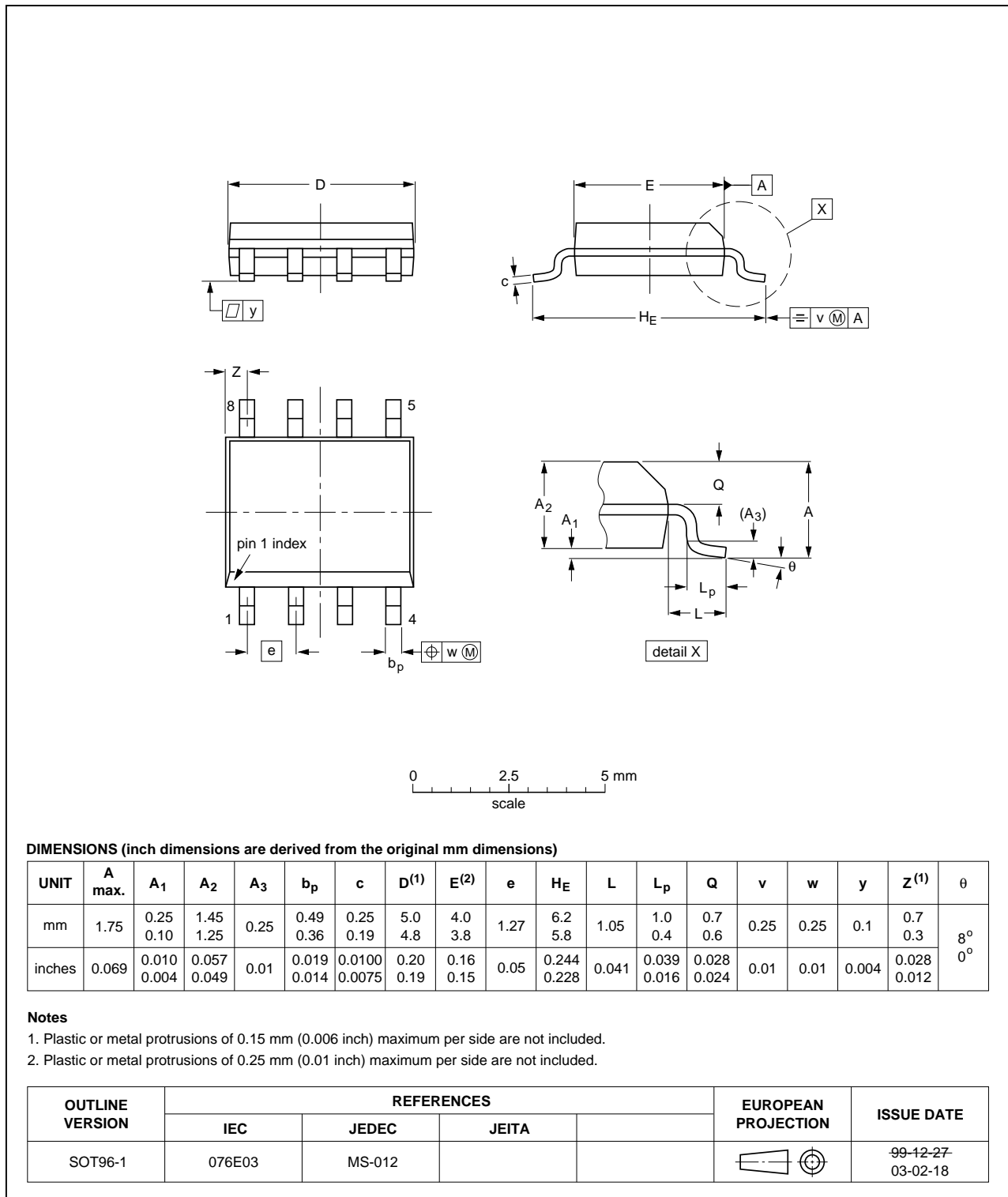


Fig 19. Package outline SOT96-1 (SO8)

## 8. Revision history

Table 7. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
PHC2300 v.5	20110224	Product data sheet	-	PHC2300 v.4
Modifications:	• Various changes to content.			
PHC2300 v.4	20101216	Product data sheet	-	PHC2300 v.3

## 9. Legal information

### 9.1 Data sheet status

Document status <a href="#">[1]</a> <a href="#">[2]</a>	Product status <a href="#">[3]</a>	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".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <http://www.nexperia.com>.

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In the event that customer uses the product for design-in and use in automotive applications to automotive specifications and standards, customer (a) shall use the product without Nexperia's warranty of the

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## 9.4 Trademarks

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## 10. Contact information

For more information, please visit: <http://www.nexperia.com>

For sales office addresses, please send an email to: [salesaddresses@nexperia.com](mailto:salesaddresses@nexperia.com)

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