

PMCPB5530X

20 V, complementary Trench MOSFET Rev. 1 — 26 June 2012

Product data sheet

1. **Product profile**

1.1 General description

Complementary N/P-channel enhancement mode Field-Effect Transistor (FET) in a small and leadless ultra thin DFN2020-6 (SOT1118) Surface-Mounted Device (SMD) plastic package using Trench MOSFET technology.

1.2 Features and benefits

- Very fast switching
- Trench MOSFET technology
- Small and leadless ultra thin SMD plastic package: 2 x 2 x 0.65 mm
- Exposed drain pad for excellent thermal conduction

1.3 Applications

- Charging switch for portable devices
- DC-to-DC converters
- Small brushless DC motor drive
- Power management in battery-driven portables
- Hard disc and computing power management

1.4 Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
TR1 (N-cha	nnel), Static characteristic	es					
R _{DSon}	drain-source on-state resistance	$V_{GS} = 4.5 \text{ V}; I_D = 3 \text{ A}; T_j = 25 \text{ °C}$		-	26	34	mΩ
TR2 (P-cha	nnel), Static characteristic	cs					
R _{DSon}	drain-source on-state resistance	$V_{GS} = -4.5 \text{ V}; I_D = -3.4 \text{ A}; T_j = 25 \text{ °C}$		-	55	70	mΩ
TR1 (N-cha	nnel)						
V_{DS}	drain-source voltage	T _j = 25 °C		-	-	20	V
V_{GS}	gate-source voltage			-12	-	12	V
I _D	drain current	$V_{GS} = 4.5 \text{ V}; T_{amb} = 25 \text{ °C}; t \le 5 \text{ s}$	<u>[1]</u>	-	-	5.3	Α



Table 1. Quick reference data ...continued

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
TR2 (P-channel)							
V_{DS}	drain-source voltage	T _j = 25 °C		-	-	-20	V
V_{GS}	gate-source voltage			-12	-	12	V
I_D	drain current	$V_{GS} = -4.5 \text{ V}; T_{amb} = 25 \text{ °C}; t \le 5 \text{ s}$	<u>[1]</u>	-	-	-4.5	Α

^[1] Device mounted on an FR4 PCB, single-sided copper, tin-plated and mounting pad for drain 6 cm².

2. Pinning information

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	S1	source TR1		B4 B6
2	G1	gate TR1	6 5 4	D1 D2
3	D2	drain TR2		
4	S2	source TR2	7 8 8	(」 本 平 二 ()
5	G2	gate TR2		
6	D1	drain TR1	1 2 3	G1 S1 S2 G2
7	D1	drain TR1	Transparent top view	017aaa261
8	D2	drain TR2	DFN2020-6 (SOT1118)	

3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
PMCPB5530X	DFN2020-6	plastic thermal enhanced ultra thin small outline package; no leads; 6 terminals	SOT1118

4. Marking

Table 4. Marking codes

Type number	Marking code
PMCPB5530X	1W

5. Limiting values

Table 5. Limiting values

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

Symbol	Parameter	Conditions	Min	Max	Unit		
TR1 (N-channel)							
V_{DS}	drain-source voltage	T _j = 25 °C	-	20	V		
V_{GS}	gate-source voltage		-12	12	V		

PMCPB5530X All information provided in this document is subject to legal disclaimers.

© Nexperia B.V. 2017. All rights reserved

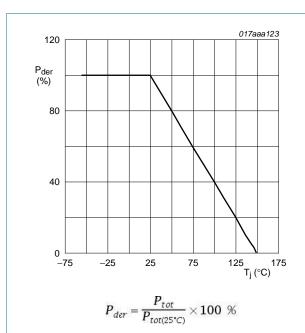
 Table 5.
 Limiting values ...continued

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

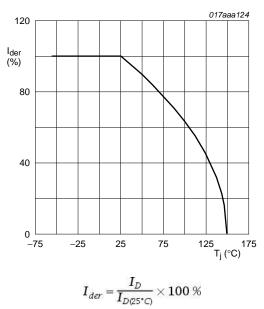
Symbol	Parameter	Conditions		Min	Max	Unit
I_D	drain current	$V_{GS} = 4.5 \text{ V}; T_{amb} = 25 \text{ °C}; t \le 5 \text{ s}$	<u>[1]</u>	-	5.3	Α
		$V_{GS} = 4.5 \text{ V}; T_{amb} = 25 ^{\circ}\text{C}$	<u>[1]</u>	-	4	Α
		$V_{GS} = 4.5 \text{ V}; T_{amb} = 100 ^{\circ}\text{C}$	<u>[1]</u>	-	2.6	Α
I _{DM}	peak drain current	$T_{amb} = 25 \text{ °C}$; single pulse; $t_p \le 10 \text{ µs}$		-	12	Α
P _{tot}	total power dissipation	T _{amb} = 25 °C	[2]	-	490	mW
			[1]	-	1170	mW
		T _{sp} = 25 °C		-	8330	mW
TR1 (N-char	nnel), Source-drain diode					
Is	source current	T _{amb} = 25 °C	<u>[1]</u>	-	1.2	Α
TR2 (P-char	nnel)					
V_{DS}	drain-source voltage	T _j = 25 °C		-	-20	V
V _{GS}	gate-source voltage			-12	12	V
I_D	drain current	$V_{GS} = -4.5 \text{ V}; T_{amb} = 25 \text{ °C}; t \le 5 \text{ s}$	<u>[1]</u>	-	-4.5	Α
		$V_{GS} = -4.5 \text{ V}; T_{amb} = 25 \text{ °C}$	<u>[1]</u>	-	-3.4	Α
		$V_{GS} = -4.5 \text{ V}; T_{amb} = 100 ^{\circ}\text{C}$	<u>[1]</u>	-	-2.2	Α
I _{DM}	peak drain current	$T_{amb} = 25 ^{\circ}C$; single pulse; $t_p \le 10 \mu s$		-	-14	Α
P _{tot}	total power dissipation	T _{amb} = 25 °C	[2]	-	490	mW
			[1]	-	1170	mW
		T _{sp} = 25 °C		-	8330	mW
TR2 (P-char	nnel), Source-drain diode					
Is	source current	T _{amb} = 25 °C	<u>[1]</u>	-	-1.2	Α
Per device						
Tj	junction temperature			-55	150	°C
T _{amb}	ambient temperature			-55	150	°C
T _{stg}	storage temperature			-65	150	°C

^[1] Device mounted on an FR4 PCB, single-sided copper, tin-plated and mounting pad for drain 6 cm².

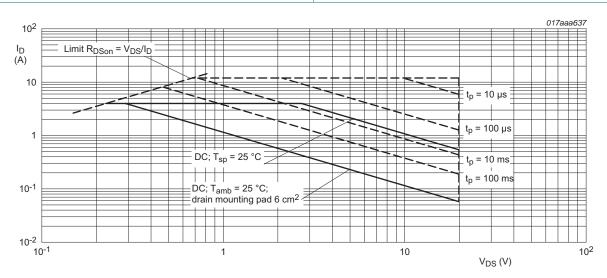
^[2] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper; tin-plated and standard footprint.



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

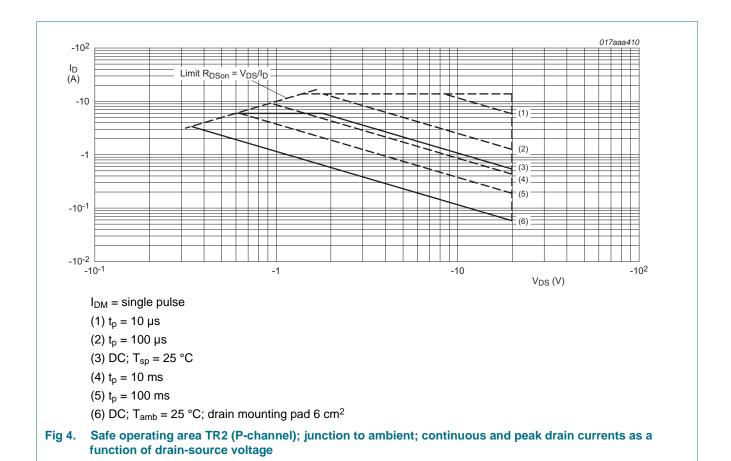


Normalized continuous drain current as a Fig 2. function of junction temperature



 I_{DM} = single pulse

Fig 3. Safe operating area TR1 (N-channel); junction to ambient; continuous and peak drain currents as a function of drain-source voltage



6. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
TR1 (N-cha	nnel)						
R _{th(j-a)}	thermal resistance	in free air	<u>[1]</u>	-	223	256	K/W
	from junction to ambient		[2]	-	93	107	K/W
ambie	ambient		[3]	-	55	63	K/W
$R_{th(j-sp)}$	thermal resistance from junction to solder point			-	10	15	K/W
TR2 (P-cha	nnel)						
R _{th(j-a)}	thermal resistance	in free air	<u>[1]</u>	-	223	256	K/W
	from junction to ambient		[2]	-	93	107	K/W
	amblem		[3]	-	55	63	K/W
$R_{th(j-sp)}$	thermal resistance from junction to solder point			-	10	15	K/W

^[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper; tin-plated and standard footprint.

PMCPB5530X

All information provided in this document is subject to legal disclaimers.

© Nexperia B.V. 2017. All rights reserved

Product data sheet

^[2] Device mounted on an FR4 PCB, single-sided copper, tin-plated and mounting pad for drain 6 cm².

^[3] Device mounted on an FR4 PCB, single-sided copper, tin-plated and mounting pad for drain 6 cm², t ≤ 5 s.

7. Characteristics

Table 7 Characteristics

Table 7.	Characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TR1 (N-cl	hannel), Static characteristic	es				
$V_{(BR)DSS}$	drain-source breakdown voltage	$I_D = 250 \ \mu A; \ V_{GS} = 0 \ V; \ T_j = 25 \ ^{\circ}C$	20	-	-	V
V _{GSth}	gate-source threshold voltage	$I_D = 250 \mu A; V_{DS} = V_{GS}; T_j = 25 \text{ °C}$	0.4	0.65	0.9	V
I _{DSS}	drain leakage current	$V_{DS} = 20 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	1	μA
		$V_{DS} = 20 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 150 \text{ °C}$	-	-	11	μA
I _{GSS}	gate leakage current	$V_{GS} = 12 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	100	nΑ
		$V_{GS} = -12 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	100	nA
R _{DSon}	drain-source on-state	$V_{GS} = 4.5 \text{ V}; I_D = 3 \text{ A}; T_j = 25 \text{ °C}$	-	26	34	mΩ
	resistance	$V_{GS} = 4.5 \text{ V}; I_D = 3 \text{ A}; T_j = 150 ^{\circ}\text{C}$	-	49	63	mΩ
		$V_{GS} = 2.5 \text{ V}; I_D = 1.4 \text{ A}; T_j = 25 \text{ °C}$	-	33	46	mΩ
		$V_{GS} = 1.8 \text{ V}; I_D = 1.4 \text{ A}; T_j = 25 \text{ °C}$	-	50	69	mΩ
9 _{fs}	transfer conductance	$V_{DS} = 5 \text{ V}; I_D = 3 \text{ A}; T_j = 25 \text{ °C}$	-	12	-	S
TR1 (N-cl	hannel), Dynamic characteri	stics				
Q _{G(tot)}	total gate charge	$V_{DS} = 10 \text{ V}; I_D = 3 \text{ A}; V_{GS} = 4.5 \text{ V};$	-	14.4	21.7	nC
Q_{GS}	gate-source charge	T _j = 25 °C	-	1.1	-	nC
Q_{GD}	gate-drain charge		-	1.5	-	nC
C _{iss}	input capacitance	$V_{DS} = 10 \text{ V}; f = 1 \text{ MHz}; V_{GS} = 0 \text{ V};$	-	660	-	pF
C _{oss}	output capacitance	T _j = 25 °C	-	87	-	pF
C _{rss}	reverse transfer capacitance		-	74	-	pF
t _{d(on)}	turn-on delay time	$V_{DS} = 10 \text{ V}; I_D = 3 \text{ A}; V_{GS} = 4.5 \text{ V};$	-	4	-	ns
t _r	rise time	$R_{G(ext)} = 6 \Omega; T_j = 25 ^{\circ}C$	-	15	-	ns
t _{d(off)}	turn-off delay time		-	40	-	ns
t _f	fall time		-	16	-	ns
TR1 (N-cl	hannel), Source-drain diode	characteristics				
V_{SD}	source-drain voltage	$I_S = 1.2 \text{ A}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	8.0	1.2	V
TR2 (P-cl	hannel), Static characteristic	s				
V _{(BR)DSS}	drain-source breakdown voltage	$I_D = -250 \mu A; V_{GS} = 0 V; T_j = 25 °C$	-20	-	-	V
V_{GSth}	gate-source threshold voltage	$I_D = -250 \mu A; V_{DS} = V_{GS}; T_j = 25 \text{ °C}$	-0.47	-0.65	-0.9	V
I _{DSS}	drain leakage current	$V_{DS} = -20 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	-1	μA
		$V_{DS} = -20 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 150 ^{\circ}\text{C}$	-	-	-10	μA
I _{GSS}	gate leakage current	V _{GS} = 12 V; V _{DS} = 0 V; T _j = 25 °C	-	-	-100	nA
		$V_{GS} = -12 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	-100	nA

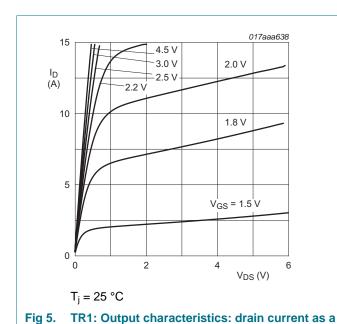
PMCPB5530X

All information provided in this document is subject to legal disclaimers.

© Nexperia B.V. 2017. All rights reserved

 Table 7.
 Characteristics ... continued

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R _{DSon}	drain-source on-state	$V_{GS} = -4.5 \text{ V}; I_D = -3.4 \text{ A}; T_j = 25 \text{ °C}$	-	55	70	mΩ
	resistance	$V_{GS} = -4.5 \text{ V}; I_D = -3.4 \text{ A}; T_j = 150 \text{ °C}$	-	78	99	mΩ
		$V_{GS} = -2.5 \text{ V}; I_D = -3 \text{ A}; T_j = 25 \text{ °C}$	-	75	90	mΩ
		$V_{GS} = -1.8 \text{ V}; I_D = -1.5 \text{ A}; T_j = 25 \text{ °C}$	-	110	135	$m\Omega$
9 _{fs}	transfer conductance	V_{DS} = -10 V; I_{D} = -3.4 A; T_{j} = 25 °C	-	15	-	S
TR2 (P-chan	nel), Dynamic characteri	stics				
Q _{G(tot)}	total gate charge	$V_{DS} = -10 \text{ V}; I_D = -3.4 \text{ A}; V_{GS} = -5 \text{ V};$	-	8.1	12.2	nC
Q_{GS}	gate-source charge	T _j = 25 °C	-	1.2	-	nC
Q_{GD}	gate-drain charge		-	1.5	-	nC
C _{iss}	input capacitance	$V_{DS} = -10 \text{ V; } f = 1 \text{ MHz; } V_{GS} = 0 \text{ V;}$	-	785	-	pF
Coss	output capacitance	T _j = 25 °C	-	63	-	pF
C _{rss}	reverse transfer capacitance		-	53	-	pF
t _{d(on)}	turn-on delay time	$V_{DS} = -10 \text{ V}; I_D = -3.4 \text{ A}; V_{GS} = -5 \text{ V};$	-	4	-	ns
t _r	rise time	$R_{G(ext)} = 6 \Omega; T_j = 25 ^{\circ}C$	-	14	-	ns
t _{d(off)}	turn-off delay time		-	40	-	ns
t _f	fall time		-	16	-	ns
TR2 (P-chan	nel), Source-drain diode	characteristics				
V_{SD}	source-drain voltage	$I_S = -1.2 \text{ A}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-0.8	-1.2	V



function of drain-source voltage; typical values

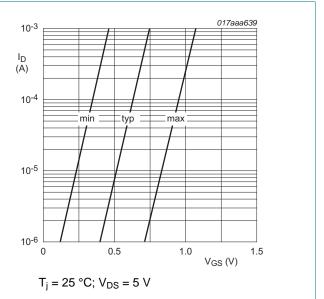


Fig 6. TR1: Sub-threshold drain current as a function of gate-source voltage

12

8

I_D (A)

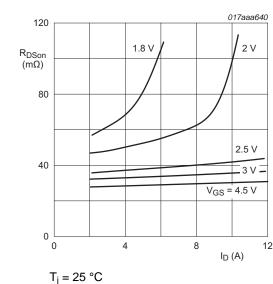
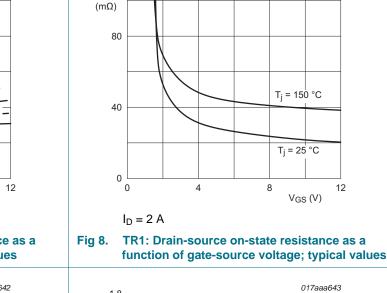


Fig 7. TR1: Drain-source on-state resistance as a function of drain current; typical values

 $T_j = 150^{\circ} C$

 $V_{DS} > I_D \times R_{DSon}$



120

R_{DSon}



Fig 9. TR1: Transfer characteristics: drain current as a function of gate-source voltage; typical values

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

 $V_{GS}(V)$

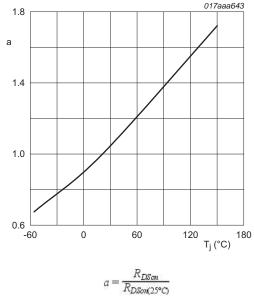


Fig 10. TR1: Normalized drain-source on-state resistance as a function of junction temperature; typical values

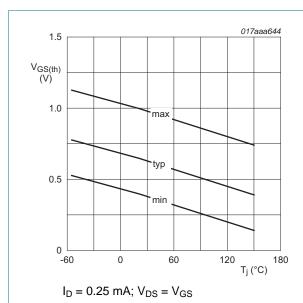
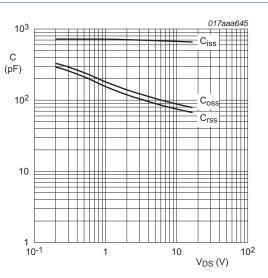


Fig 11. TR1: Gate-source threshold voltage as a function of junction temperature



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

Fig 12. TR1: Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

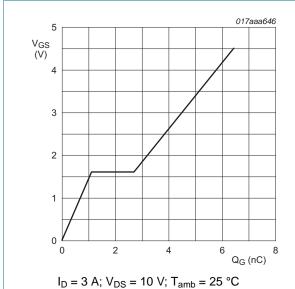


Fig 13. TR1: Gate-source voltage as a function of gate charge; typical values

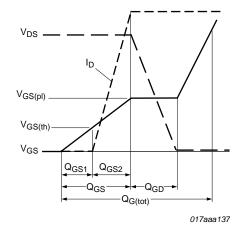


Fig 14. Gate charge waveform definitions

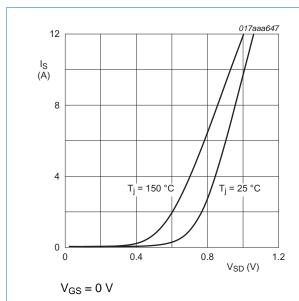
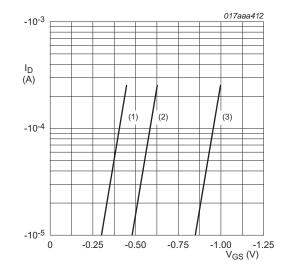


Fig 15. TR1: Source current as a function of source-drain voltage; typical values



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

- (1) minimum values
- (2) typical values
- (3) maximum values

Fig 17. TR2: Sub-threshold drain current as a function of gate-source voltage

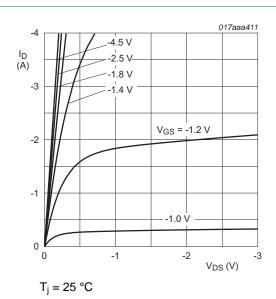


Fig 16. TR2: Output characteristics: drain current as a function of drain-source voltage; typical values

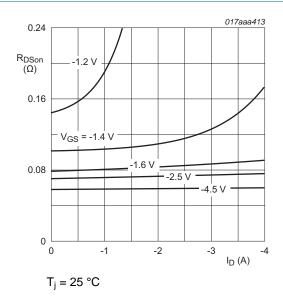
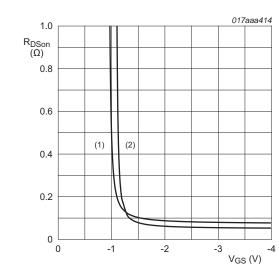


Fig 18. TR2: Drain-source on-state resistance as a function of drain current; typical values

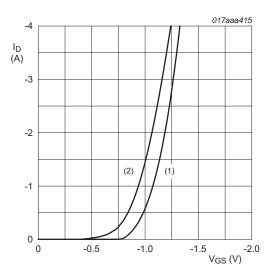


$$I_{D} = -1 A$$

(1)
$$T_i = 150 \, ^{\circ}\text{C}$$

(2)
$$T_j = 25 \, ^{\circ}C$$

Fig 19. TR2: Drain-source on-state resistance as a function of gate-source voltage; typical values



 $V_{DS} > I_D \times R_{DSon}$

(1)
$$T_j = 25 \, ^{\circ}C$$

(2)
$$T_j = 150 \, ^{\circ}C$$

Fig 20. TR2: Transfer characteristics: drain current as a function of gate-source voltage; typical values

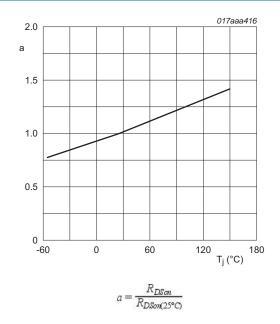
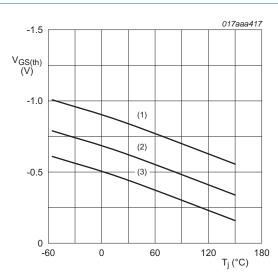


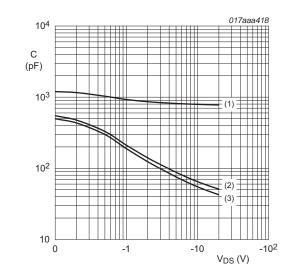
Fig 21. TR2: Normalized drain-source on-state resistance as a function of junction temperature; typical values



 $I_D = -0.25 \text{ mA}; V_{DS} = V_{GS}$

- (1) maximum values
- (2) typical values
- (3) minimum values

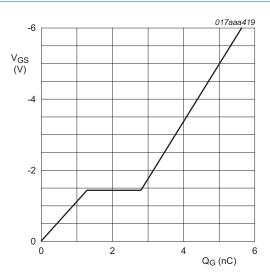
Fig 22. TR2: Gate-source threshold voltage as a function of junction temperature



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

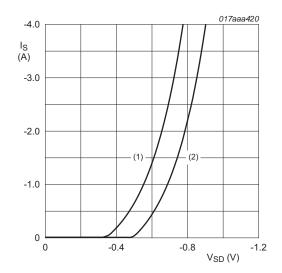
- (1) C_{iss}
- (2) Coss
- (3) C_{rss}

Fig 23. TR2: Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values



$$I_D = -3.3 \text{ A}; V_{DS} = -10 \text{ V}; T_{amb} = 25 \text{ °C}$$

Fig 24. TR2: Gate-source voltage as a function of gate charge; typical values



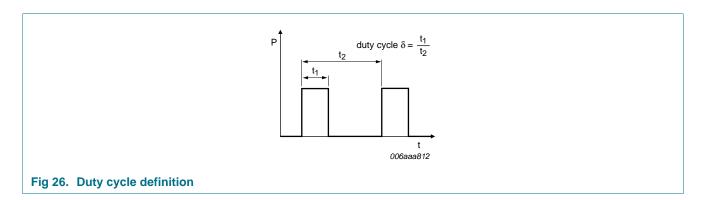
 $V_{GS} = 0 V$

(1) $T_{amb} = 150 \, ^{\circ}C$

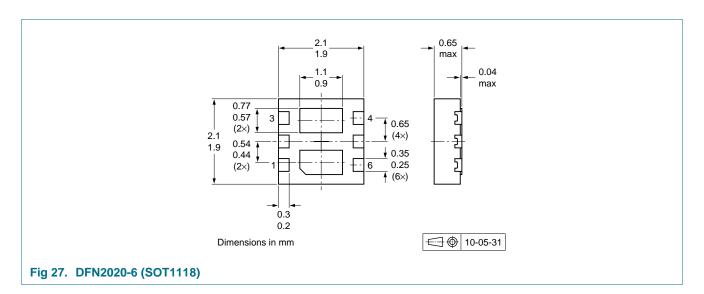
(2) $T_{amb} = 25 \, ^{\circ}C$

Fig 25. TR2: Source current as a function of source-drain voltage; typical values

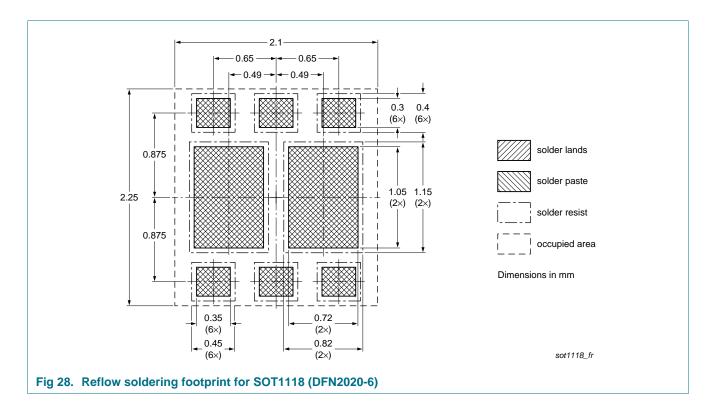
8. Test information



9. Package outline



10. Soldering



11. Revision history

Table 8. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
PMCPB5530X v.1	20120626	Product data sheet	-	-

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.

- [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.

12.2 Definitions

Preview — The document is a preview version only. The document is still subject to formal approval, which may result in modifications or additions. Nexperia does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

Draft — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. Nexperia does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

Short data sheet — A short data sheet is an extract from a full data sheet with the same product type number(s) and title. A short data sheet is intended for quick reference only and should not be relied upon to contain detailed and full information. For detailed and full information see the relevant full data sheet, which is available on request via the local Nexperia sales office. In case of any inconsistency or conflict with the short data sheet, the full data sheet shall prevail.

Product specification — The information and data provided in a Product data sheet shall define the specification of the product as agreed between Nexperia and its customer, unless Nexperia and customer have explicitly agreed otherwise in writing. In no event however, shall an agreement be valid in which the Nexperia product is deemed to offer functions and qualities beyond those described in the Product data sheet.

12.3 Disclaimers

Limited warranty and liability — Information in this document is believed to be accurate and reliable. However, Nexperia does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. Nexperia takes no responsibility for the content in this document if provided by an information source outside of Nexperia.

In no event shall Nexperia be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, Nexperia's aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the *Terms and conditions of commercial sale* of Nexperia.

Right to make changes — Nexperia reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

Suitability for use in automotive applications — This Nexperia product has been qualified for use in automotive applications. Unless otherwise agreed in writing, the product is not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of a Nexperia product can reasonably be expected to result in personal injury, death or severe property or environmental damage. Nexperia and its suppliers accept no liability for inclusion and/or use of Nexperia products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk

Quick reference data — The Quick reference data is an extract of the product data given in the Limiting values and Characteristics sections of this document, and as such is not complete, exhaustive or legally binding.

Applications — Applications that are described herein for any of these products are for illustrative purposes only. Nexperia makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using Nexperia products, and Nexperia accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the Nexperia product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

Nexperia does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using Nexperia products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). Nexperia does not accept any liability in this respect.

Limiting values — Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the

PMCPB5530X

All information provided in this document is subject to legal disclaimers.

© Nexperia B.V. 2017. All rights reserved

Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

Terms and conditions of commercial sale — Nexperia products are sold subject to the general terms and conditions of commercial sale, as published at http://www.nexperia.com/profile/terms, unless otherwise agreed in a valid written individual agreement. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. Nexperia hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of Nexperia products by customer.

No offer to sell or license — Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

Export control — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

Translations — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

12.4 Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

13. Contact information

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

For sales office addresses, please send an email to:salesaddresses@nexperia.com

PMCPB5530X

Nexperia

20 V, complementary Trench MOSFET

14. Contents

1	Product profile
1.1	General description
1.2	Features and benefits1
1.3	Applications1
1.4	Quick reference data1
2	Pinning information2
3	Ordering information
4	Marking
5	Limiting values2
6	Thermal characteristics5
7	Characteristics6
8	Test information13
9	Package outline13
10	Soldering14
11	Revision history15
12	Legal information16
12.1	Data sheet status
12.2	Definitions
12.3	Disclaimers
12.4	Trademarks17
42	Contact information 47

单击下面可查看定价,库存,交付和生命周期等信息

>>Nexperia(安世)