Product data sheet

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	TR1 (N-channel), Static characteristics						
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	TR2 (P-channel), Static characteristics						
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	innel)						
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-chan	inel)						
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		D4 D0
2	G1	gate TR1	6 5 4	D1 D2
3	D2	drain TR2		
4	S2	source TR2		
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-cha	nnel)				
V_{DS}	drain-source voltage	T _j = 25 °C	-	20	V
V _{GS}	gate-source voltage		-12	12	V

PMCPB5530X

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
		$V_{GS} = 4.5 \text{ V}; T_{amb} = 100 \text{ °C}$	<u>[1]</u>	-	2.6	Α
I _{DM}	peak drain current	$T_{amb} = 25$ °C; single pulse; $t_p \le 10 \mu s$		-	12	Α
P _{tot}	total power dissipation	T _{amb} = 25 °C	[2]	-	490	mW
			<u>[1]</u>	-	1170	mW
		$T_{sp} = 25 ^{\circ}C$		-	8330	mW
TR1 (N-chai	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
		$V_{GS} = -4.5 \text{ V}; T_{amb} = 100 \text{ °C}$	<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
			<u>[1]</u>	-	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.

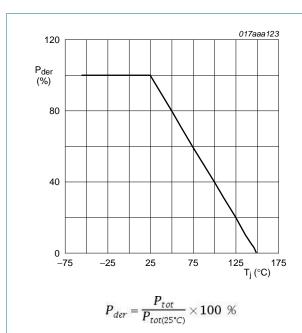


Fig 1. Normalized total power dissipation as a function of junction temperature

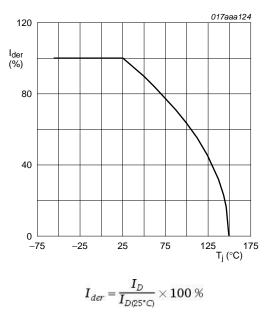


Fig 2. Normalized continuous drain current as a function of junction temperature

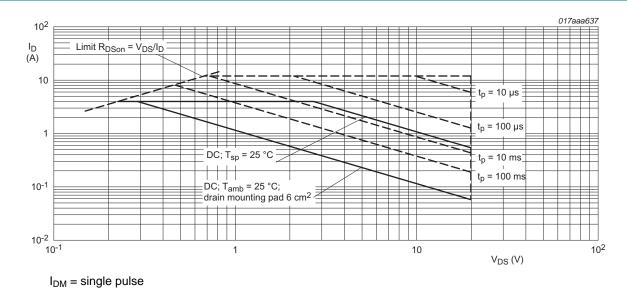
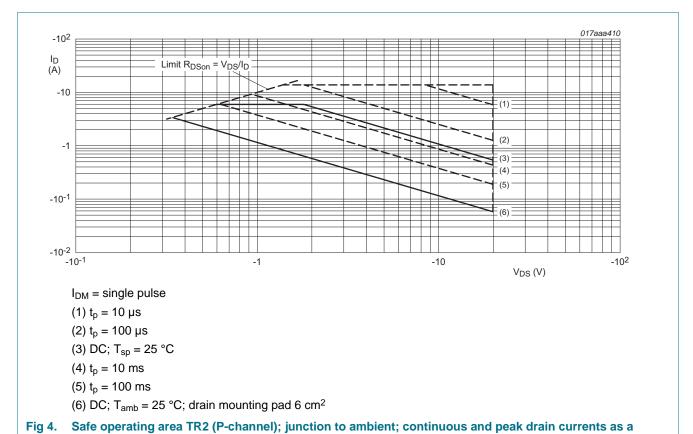


Fig 3. Safe operating area TR1 (N-channel); junction to ambient; continuous and peak drain currents as a function of drain-source voltage



function of drain-source voltage

Thermal characteristics

Thermal characteristics

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

PMCPB5530X

6.

Table 6.

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

^[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 cm 2 , t \leq 5 s.

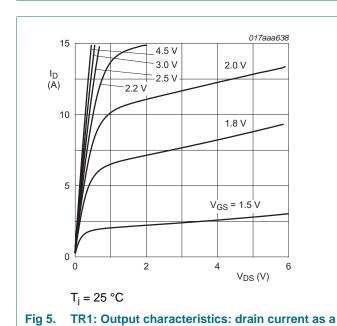
7. Characteristics

Table 7. Characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TR1 (N-char	nnel), Static characteristic	es				
$V_{(BR)DSS}$	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	$I_D = 250 \mu A; V_{DS} = V_{GS}; T_j = 25 \text{ °C}$	0.4	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	μΑ
		$V_{DS} = 20 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 150 \text{ °C}$	-	-	11	μΑ
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	nΑ
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
		$V_{GS} = 2.5 \text{ V}; I_D = 1.4 \text{ A}; T_j = 25 ^{\circ}\text{C}$	-	33	46	mΩ
		$V_{GS} = 1.8 \text{ V}; I_D = 1.4 \text{ A}; T_j = 25 ^{\circ}\text{C}$	-	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-char	nnel), 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-char	nnel), 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-char	nnel), 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	μΑ
		$V_{DS} = -20 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 150 \text{ °C}$	-	-	-10	μΑ
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

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 V; f = 1 MHz; V_{GS} = 0 V; T_j = 25 °C	-	785	-	pF
C _{oss}	output capacitance		-	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

10-3 I_{D} (A)10-4 I_{D} I_{O} I_{O} I

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

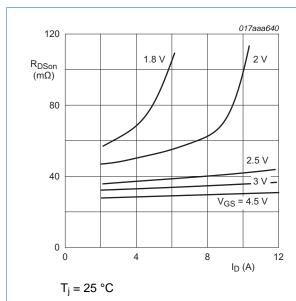


Fig 7. TR1: Drain-source on-state resistance as a function of drain current; typical values

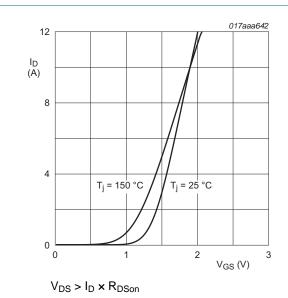


Fig 9. TR1: Transfer characteristics: drain current as a function of gate-source voltage; typical values

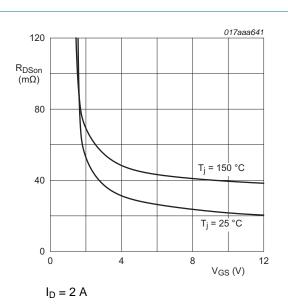


Fig 8. TR1: Drain-source on-state resistance as a function of gate-source voltage; typical values

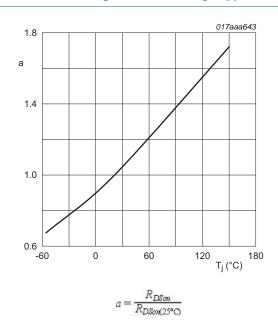


Fig 10. TR1: Normalized drain-source on-state resistance as a function of junction temperature; typical values

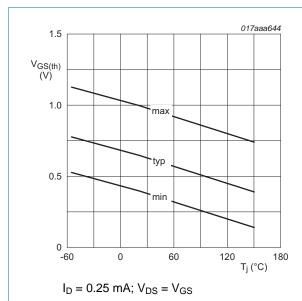
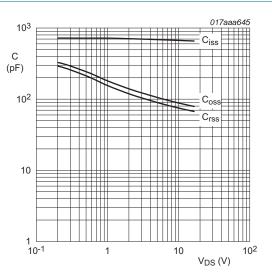


Fig 11. TR1: Gate-source threshold voltage as a function of junction temperature



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

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

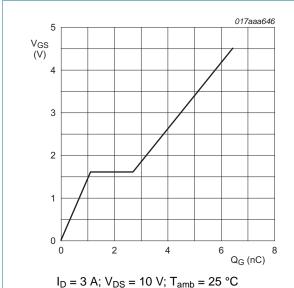


Fig 13. TR1: Gate-source voltage as a function of gate charge; typical values

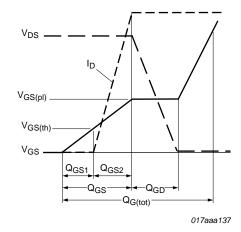


Fig 14. Gate charge waveform definitions

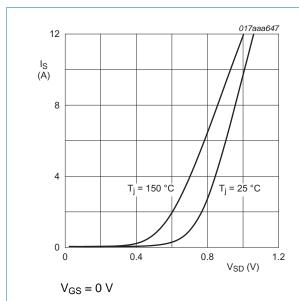
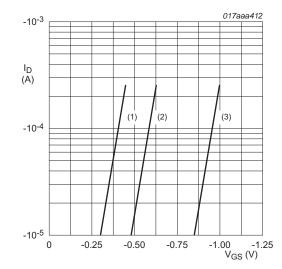


Fig 15. TR1: Source current as a function of source-drain voltage; typical values



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

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

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

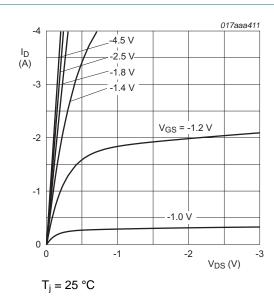


Fig 16. TR2: Output characteristics: drain current as a function of drain-source voltage; typical values

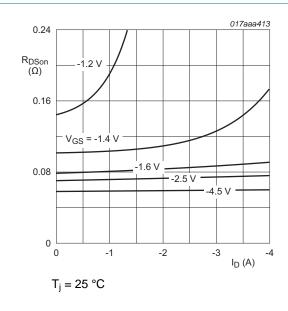
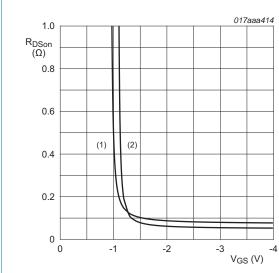


Fig 18. TR2: Drain-source on-state resistance as a function of drain current; typical values

10 of 18

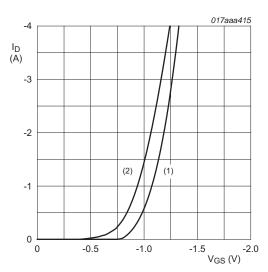


$$I_{D} = -1 A$$

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

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

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

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

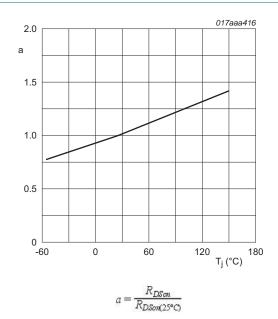
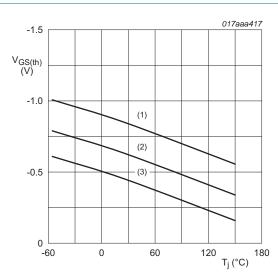


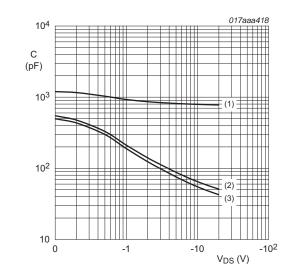
Fig 21. TR2: Normalized drain-source on-state resistance as a function of junction temperature; typical values



 I_D = -0.25 mA; V_{DS} = V_{GS}

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

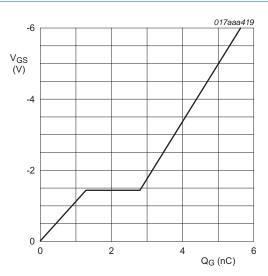
Fig 22. TR2: Gate-source threshold voltage as a function of junction temperature



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

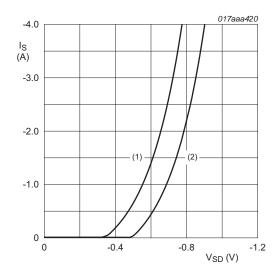
- (1) C_{iss}
- (2) Coss
- (3) C_{rss}

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



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

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



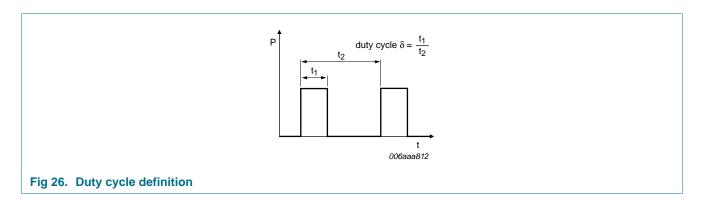
 $V_{GS} = 0 V$

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

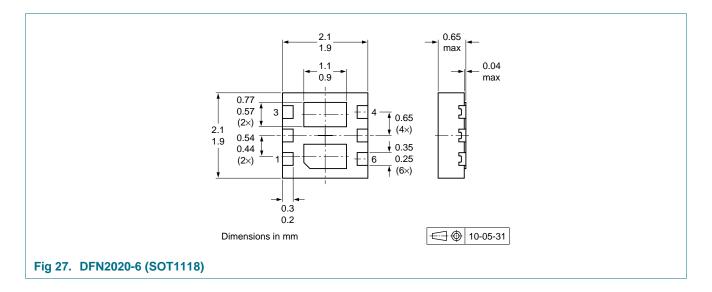
(2) $T_{amb} = 25 \, ^{\circ}C$

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

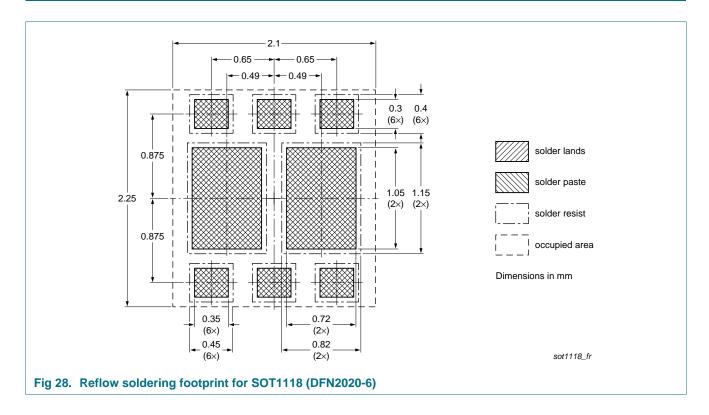
8. Test information



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 URLhttp://www.nxp.com.

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13. Contact information

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PMCPB5530X

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 information2
4	Marking2
5	Limiting values2
6	Thermal characteristics5
7	Characteristics6
8	Test information13
9	Package outline
10	Soldering14
11	Revision history15
12	Legal information16
12.1	Data sheet status
12.2	Definitions
12.3	Disclaimers
12.4	Trademarks17
13	Contact information

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