

# PMCXB900UEL

20 V, complementary N/P-channel Trench MOSFET
28 June 2016 Product

Product data sheet

## 1. General description

Complementary N/P-channel enhancement mode Field-Effect Transistor (FET) in a leadless ultra small DFN1010B-6 (SOT1216) Surface-Mounted Device (SMD) plastic package using Trench MOSFET technology.

#### 2. Features and benefits

- Low leakage current
- Trench MOSFET technology
- Very low threshold voltage for portable applications: V<sub>GS(th)</sub> = 0.7 V
- Leadless ultra small and ultra thin SMD plastic package: 1.1 × 1.0 × 0.37 mm
- ElectroStatic Discharge (ESD) protection > 1 kV HBM

### 3. Applications

- Relay driver
- High-speed line driver
- · Level shifter
- Power management in battery-driven portables

#### 4. Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
TR1 (N-char	nnel)						
$V_{DS}$	drain-source voltage	T <sub>j</sub> = 25 °C		-	-	20	V
$V_{GS}$	gate-source voltage			-8	-	8	V
I <sub>D</sub>	drain current	V <sub>GS</sub> = 4.5 V; T <sub>amb</sub> = 25 °C	[1]	-	-	600	mA
TR2 (P-char	nnel)						
V <sub>DS</sub>	drain-source voltage	T <sub>j</sub> = 25 °C		-	-	-20	V
V <sub>GS</sub>	gate-source voltage			-8	-	8	V
TR1 (N-char	nnel), Static characteristic	es					
R <sub>DSon</sub>	drain-source on-state resistance	$V_{GS}$ = 4.5 V; $I_{D}$ = 600 mA; $T_{j}$ = 25 °C		-	470	620	mΩ

<sup>[1]</sup> Device mounted on an FR4 PCB, single-sided copper, tin-plated and mounting pad for drain 1 cm<sup>2</sup>.



## 5. Pinning information

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	S1	source TR1	h / 1 H	D1 D2
2	G1	gate TR1	$\begin{bmatrix} 1 \\ 7 \end{bmatrix} \begin{bmatrix} 6 \\ \end{bmatrix}$	
3	D2	drain TR2	2 5	G1 $G2$ $G2$
4	S2	source TR2	8 5	
5	G2	gate TR2	3 4	
6	D1	drain TR1	Transparent top view	S1 S2 017aaa262
7	D1	drain TR1	DFN1010B-6 (SOT1216)	
8	D2	drain TR2		

## 6. Ordering information

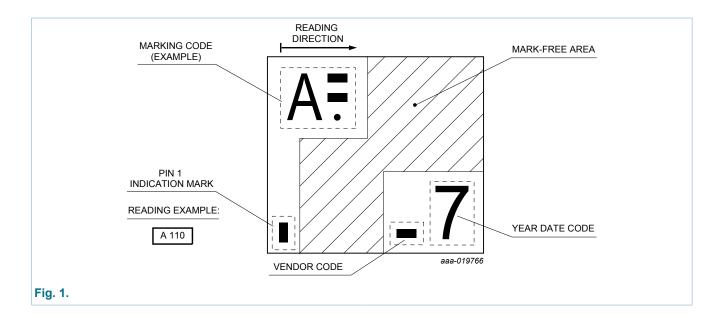
Table 3. Ordering information

Type number	Package				
	Name	Description	Version		
PMCXB900UEL	DFN1010B-6	DFN1010B-6: plastic thermal enhanced ultra thin small outline package; no leads; 6 terminals	SOT1216		

## 7. Marking

Table 4. Marking codes

Type number	Marking code
PMCXB900UEL	B 110



## 8. 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 <sub>DS</sub>	drain-source voltage	T <sub>j</sub> = 25 °C		-	20	V
$V_{GS}$	gate-source voltage			-8	8	V
I <sub>D</sub>	drain current	V <sub>GS</sub> = 4.5 V; T <sub>amb</sub> = 25 °C	[1]	-	600	mA
		$V_{GS}$ = 4.5 V; $T_{amb}$ = 100 °C	[1]	-	400	mA
I <sub>DM</sub>	peak drain current	$T_{amb}$ = 25 °C; single pulse; $t_p \le 10 \mu s$		-	2.5	Α
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = 25 °C	[2]	-	265	mW
			[1]	-	380	mW
		$T_{sp} = 25  ^{\circ}C$		-	4025	mW
TR2 (P-cha	nnel)					
$V_{DS}$	drain-source voltage	T <sub>j</sub> = 25 °C		-	-20	V
$V_{GS}$	gate-source voltage			-8	8	V
I <sub>D</sub>	drain current	V <sub>GS</sub> = -4.5 V; T <sub>amb</sub> = 25 °C	[1]	-	-500	mA
		$V_{GS}$ = -4.5 V; $T_{amb}$ = 100 °C	[1]	-	-300	mA
I <sub>DM</sub>	peak drain current	$T_{amb}$ = 25 °C; single pulse; $t_p \le 10 \mu s$		-	-2	Α
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = 25 °C	[2]	-	265	mW
			[1]	-	380	mW
		T <sub>sp</sub> = 25 °C		-	4025	mW
Per device						
Tj	junction temperature			-55	150	°C
T <sub>amb</sub>	ambient temperature			-55	150	°C
T <sub>stg</sub>	storage temperature			-65	150	°C
TR1 (N-cha	nnel), Source-drain diode		1		1	
Is	source current	T <sub>amb</sub> = 25 °C	[1]	-	400	mA
TR2 (P-cha	nnel), Source-drain diode		-	-	1	
I <sub>S</sub>	source current	T <sub>amb</sub> = 25 °C	[1]	-	-350	mA

<sup>[1]</sup> Device mounted on an FR4 PCB, single-sided copper, tin-plated and mounting pad for drain 1 cm<sup>2</sup>.

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

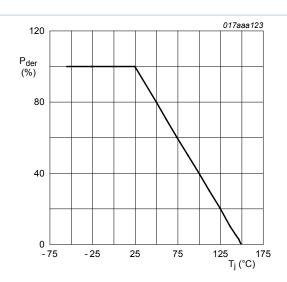


Fig. 2. MOSFET transistor: Normalized total power dissipation as a function of junction temperature

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

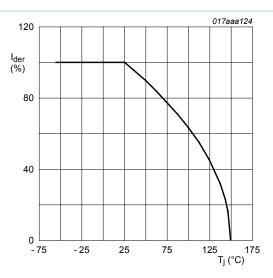


Fig. 3. MOSFET transistor: Normalized continuous drain current as a function of junction temperature

$$I_{der} = \frac{I_D}{I_{D(25^{\circ}C)}} \times 100 \%$$

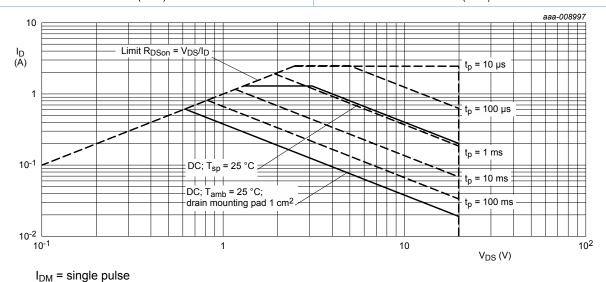


Fig. 4. TR1 (N-channel): safe operating area; junction to ambient; continuous and peak drain currents as a function of drain-source voltage

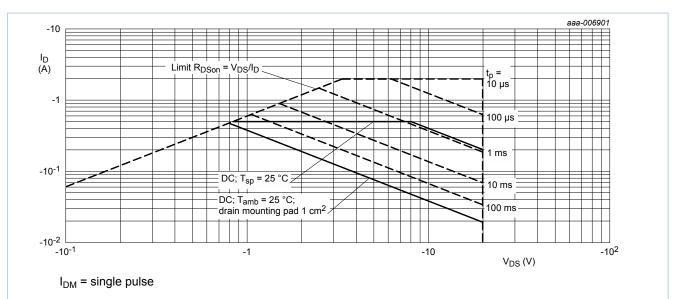


Fig. 5. TR2 (P-channel): safe operating area; junction to ambient; continuous and peak drain currents as a function of drain-source voltage

#### 9. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
TR1 (N-chanı	nel)						
R <sub>th(j-a)</sub>	thermal resistance	in free air	[1]	-	410	475	K/W
	from junction to ambient		[2]	-	285	330	K/W
R <sub>th(j-sp)</sub>	thermal resistance from junction to solder point			-	27	31	K/W
TR2 (P-chann	nel)		,	'		'	,
R <sub>th(j-a)</sub>	thermal resistance	in free air	[1]	-	410	475	K/W
	from junction to ambient		[2]	-	285	330	K/W
R <sub>th(j-sp)</sub>	thermal resistance from junction to solder point			-	27	31	K/W

<sup>[1]</sup> Device mounted on an FR4 PCB, single-sided copper; tin-plated and standard footprint.

Device mounted on an FR4 PCB, single-sided copper, tin-plated and mounting pad for drain 1 cm<sup>2</sup>.

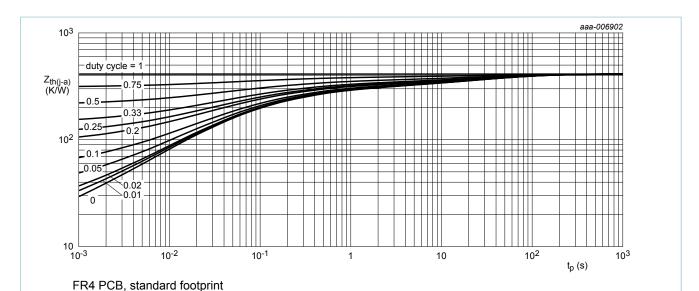
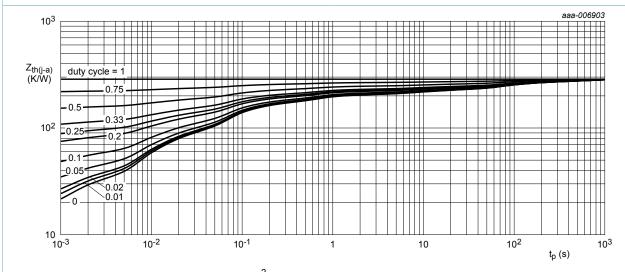


Fig. 6. TR1 and TR2: transient thermal impedance from junction to ambient as a function of pulse duration; typical values



FR4 PCB, mounting pad for drain 1 cm<sup>2</sup>

Fig. 7. TR1 and TR2: transient thermal impedance from junction to ambient as a function of pulse duration; typical values

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## 10. Characteristics

Table 7 Characteristics

Parameter	Conditions	Min	Тур	Max	Unit
nnel), Static characteristic	S				
drain-source breakdown voltage	$I_D$ = 250 $\mu$ A; $V_{GS}$ = 0 V; $T_j$ = 25 °C	20	-	-	V
gate-source threshold voltage	$I_D = 250 \mu A; V_{DS} = V_{GS}; T_j = 25 \text{ °C}$	0.45	0.7	0.95	V
drain leakage current	V <sub>DS</sub> = 20 V; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	1	μΑ
	V <sub>DS</sub> = 5 V; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	25	nA
gate leakage current	V <sub>GS</sub> = 8 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	10	μΑ
	V <sub>GS</sub> = -8 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	-10	μΑ
	V <sub>GS</sub> = 4.5 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	1	μA
	V <sub>GS</sub> = -4.5 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	-1	μA
	V <sub>GS</sub> = 1.8 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	50	nA
	V <sub>GS</sub> = -1.8 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	-50	nA
drain-source on-state resistance	V <sub>GS</sub> = 4.5 V; I <sub>D</sub> = 600 mA; T <sub>j</sub> = 25 °C	-	470	620	mΩ
	V <sub>GS</sub> = 4.5 V; I <sub>D</sub> = 600 mA; T <sub>j</sub> = 150 °C	-	760	1000	mΩ
	V <sub>GS</sub> = 2.5 V; I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C	-	620	850	mΩ
	V <sub>GS</sub> = 1.8 V; I <sub>D</sub> = 100 mA; T <sub>j</sub> = 25 °C	-	845	1300	mΩ
	V <sub>GS</sub> = 1.5 V; I <sub>D</sub> = 10 mA; T <sub>j</sub> = 25 °C	-	1125	3000	mΩ
	V <sub>GS</sub> = 1.2 V; I <sub>D</sub> = 1 mA; T <sub>j</sub> = 25 °C	-	2210	-	mΩ
forward transconductance	V <sub>DS</sub> = 5 V; I <sub>D</sub> = 600 mA; T <sub>j</sub> = 25 °C	-	1	-	S
nnel), Static characteristic	s				
drain-source breakdown voltage	$I_D = -250 \mu A; V_{GS} = 0 V; T_j = 25 °C$	-20	-	-	V
gate-source threshold voltage	$I_D = -250 \mu A; V_{DS} = V_{GS}; T_j = 25 \text{ °C}$	-0.45	-0.7	-0.95	V
drain leakage current	V <sub>DS</sub> = -20 V; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	-1	μA
	V <sub>DS</sub> = -5 V; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	-25	nA
gate leakage current	V <sub>GS</sub> = 8 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	10	μΑ
	V <sub>GS</sub> = -8 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	-10	μΑ
	V <sub>GS</sub> = 4.5 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	1	μA
	V <sub>GS</sub> = -4.5 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	-1	μΑ
	V <sub>GS</sub> = 1.8 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	-	50	nA
	V <sub>GS</sub> = -1.8 V; V <sub>DS</sub> = 0 V; T <sub>i</sub> = 25 °C	-	_	-50	nA
	drain-source breakdown voltage gate-source threshold voltage drain leakage current gate leakage current forward transconductance breakdown voltage drain-source breakdown voltage gate-source threshold voltage drain leakage current	Static characteristics   drain-source   I <sub>D</sub> = 250 μA; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 250 μA; V <sub>DS</sub> =V <sub>GS</sub> ; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 250 μA; V <sub>DS</sub> =V <sub>GS</sub> ; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 250 μA; V <sub>DS</sub> =V <sub>GS</sub> ; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 250 ν; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 5 V; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 5 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 4.5 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 4.5 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 4.5 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 4.5 V; V <sub>DS</sub> = 0 V; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 4.5 V; I <sub>D</sub> = 600 mA; T <sub>j</sub> = 25 °C     I <sub>D</sub> = 4.5 V; I <sub>D</sub> = 600 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 4.5 V; I <sub>D</sub> = 100 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 1.5 V; I <sub>D</sub> = 100 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 1.5 V; I <sub>D</sub> = 100 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 1.5 V; I <sub>D</sub> = 100 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 500 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 25 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub> = 50 °C   I <sub>D</sub> = 50 mA; T <sub>j</sub>	Static characteristics	MeIII   Natatic characteristics   Drawling   Incomplete   Incomple	Mare

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R <sub>DSon</sub>	drain-source on-state	$V_{GS}$ = -4.5 V; $I_D$ = -500 mA; $T_j$ = 25 °C	-	1.02	1.4	Ω
	resistance	$V_{GS}$ = -4.5 V; $I_D$ = -500 mA; $T_j$ = 150 °C	-	1.54	2.1	Ω
		$V_{GS}$ = -2.5 V; $I_D$ = -200 mA; $T_j$ = 25 °C	-	1.27	2.2	Ω
		$V_{GS}$ = -1.8 V; $I_D$ = -40 mA; $T_j$ = 25 °C	-	1.7	3.3	Ω
		$V_{GS}$ = -1.5 V; $I_D$ = -10 mA; $T_j$ = 25 °C	-	2.3	5	Ω
		$V_{GS}$ = -1.2 V; $I_D$ = -1 mA; $T_j$ = 25 °C	-	3.5	-	Ω
9fs	forward transconductance	$V_{DS}$ = -10 V; $I_{D}$ = -500 mA; $T_{j}$ = 25 °C	-	480	-	mS
TR1 (N-cha	nnel), Dynamic characteri	stics		'		
Q <sub>G(tot)</sub>	total gate charge	$V_{DS}$ = 10 V; $I_{D}$ = 600 mA; $V_{GS}$ = 4.5 V;	-	0.4	0.7	nC
$Q_{GS}$	gate-source charge	T <sub>j</sub> = 25 °C	-	0.1	-	nC
$Q_{GD}$	gate-drain charge		-	0.1	-	nC
C <sub>iss</sub>	input capacitance	V <sub>DS</sub> = 10 V; f = 1 MHz; V <sub>GS</sub> = 0 V;	-	21.3	-	pF
C <sub>oss</sub>	output capacitance	T <sub>j</sub> = 25 °C	-	5.4	-	pF
C <sub>rss</sub>	reverse transfer capacitance		-	4.2	-	pF
t <sub>d(on)</sub>	turn-on delay time	$V_{DS}$ = 10 V; $I_{D}$ = 600 mA; $V_{GS}$ = 4.5 V; $R_{G(ext)}$ = 6 $\Omega$ ; $T_{j}$ = 25 °C	-	5.6	-	ns
t <sub>r</sub>	rise time		-	9.2	-	ns
t <sub>d(off)</sub>	turn-off delay time		-	19	-	ns
t <sub>f</sub>	fall time		-	51	-	ns
TR2 (P-cha	nnel), Dynamic characteri	stics		-		
Q <sub>G(tot)</sub>	total gate charge	$V_{DS} = -10 \text{ V}; I_D = -450 \text{ mA};$	-	1.19	2.1	nC
Q <sub>GS</sub>	gate-source charge	$V_{GS} = -4.5 \text{ V}; T_j = 25 \text{ °C}$	-	0.17	-	nC
$Q_{GD}$	gate-drain charge		-	0.1	-	nC
C <sub>iss</sub>	input capacitance	V <sub>DS</sub> = -10 V; f = 1 MHz; V <sub>GS</sub> = 0 V;	-	43	-	pF
C <sub>oss</sub>	output capacitance	T <sub>j</sub> = 25 °C	-	14	-	pF
C <sub>rss</sub>	reverse transfer capacitance		-	8	-	pF
t <sub>d(on)</sub>	turn-on delay time	$V_{DS}$ = -10 V; $I_{D}$ = -450 mA;	-	2.3	-	ns
t <sub>r</sub>	rise time	$V_{GS} = -4.5 \text{ V}; R_{G(ext)} = 6 \Omega; T_j = 25 \text{ °C}$	-	5	-	ns
t <sub>d(off)</sub>	turn-off delay time	-	-	13.5	-	ns
t <sub>f</sub>	fall time	-	-	6	-	ns
TR1 (N-cha	nnel), Source-drain diode	characteristics		1		
V <sub>SD</sub>	source-drain voltage	$I_S = 360 \text{ mA}; V_{GS} = 0 \text{ V}; T_j = 25 ^{\circ}\text{C}$	-	0.8	1.2	V
TR2 (P-cha	nnel), Source-drain diode	characteristics		1		
V <sub>SD</sub>	source-drain voltage	$I_S = -115 \text{ mA}; V_{GS} = 0 \text{ V}; T_i = 25 ^{\circ}\text{C}$	-	-0.7	-1.2	V

PMCXB900UEL

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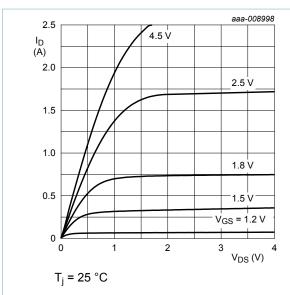


Fig. 8. TR1: output characteristics; drain current as a function of drain-source voltage; typical values

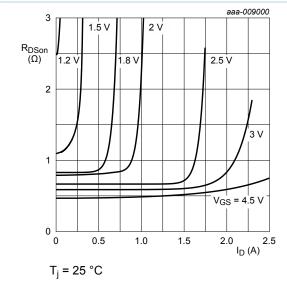


Fig. 10. TR1: drain-source on-state resistance as a function of drain current; typical values

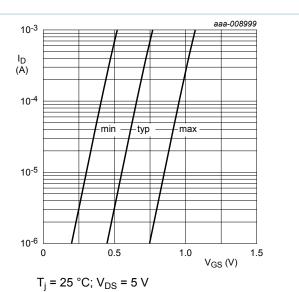


Fig. 9. TR1: sub-threshold drain current as a function of gate-source voltage

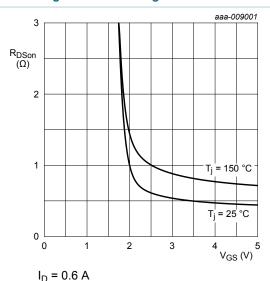


Fig. 11. TR1: drain-source on-state resistance as a function of gate-source voltage; typical values

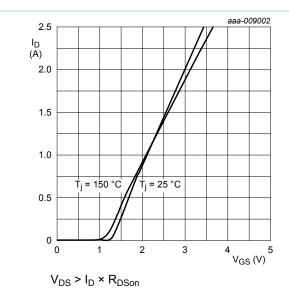


Fig. 12. TR1: transfer characteristics; drain current as a function of gate-source voltage; typical values

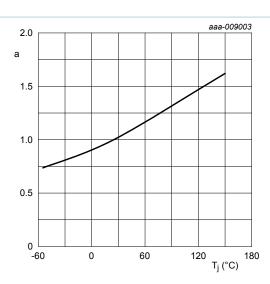


Fig. 13. TR1: normalized drain-source on-state resistance as a function of junction temperature; typical values

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

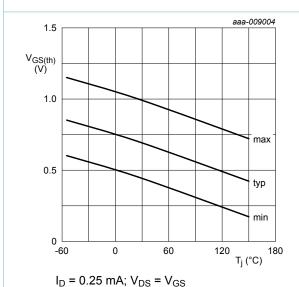
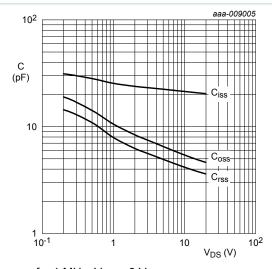


Fig. 14. TR1: gate-source threshold voltage as a function of junction temperature



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

Fig. 15. TR1: input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

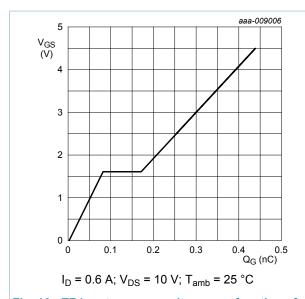


Fig. 16. TR1: gate-source voltage as a function of gate charge; typical values

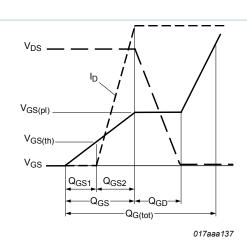


Fig. 17. Gate charge waveform definitions

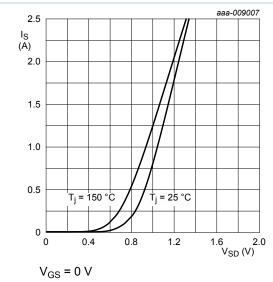


Fig. 18. TR1: source current as a function of sourcedrain voltage; typical values

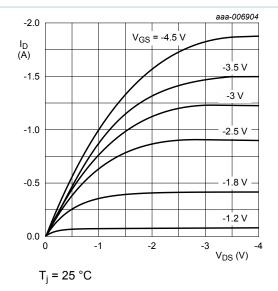


Fig. 19. TR2: output characteristics; drain current as a function of drain-source voltage; typical values

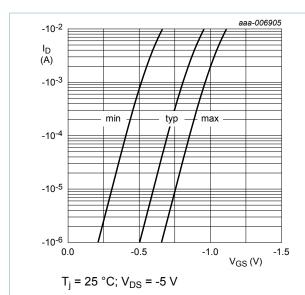


Fig. 20. TR2: sub-threshold drain current as a function of gate-source voltage

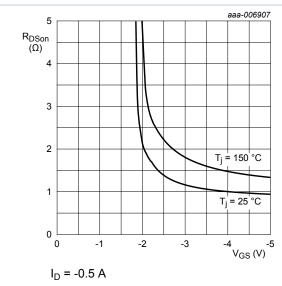


Fig. 22. TR2: drain-source on-state resistance as a function of gate-source voltage; typical values

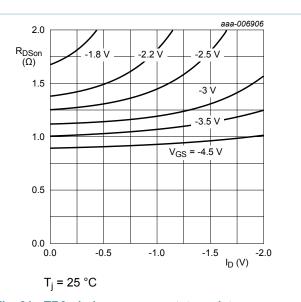


Fig. 21. TR2: drain-source on-state resistance as a function of drain current; typical values

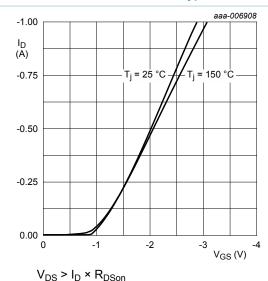


Fig. 23. TR2: transfer characteristics; drain current as a function of gate-source voltage; typical values

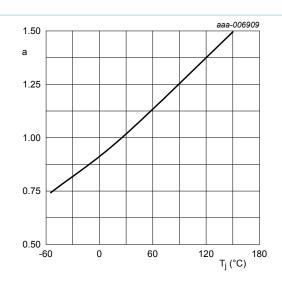


Fig. 24. TR2: normalized drain-source on-state resistance as a function of junction temperature; typical values

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

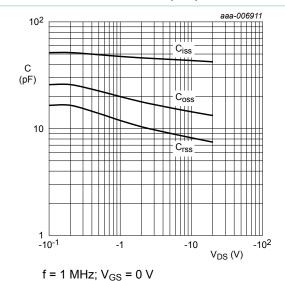


Fig. 26. TR2: input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

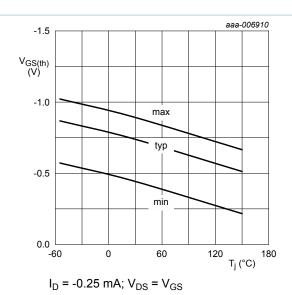


Fig. 25. TR2: gate-source threshold voltage as a function of junction temperature

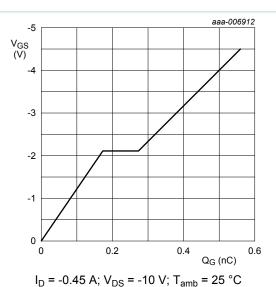


Fig. 27. TR2: gate-source voltage as a function of gate charge; typical values

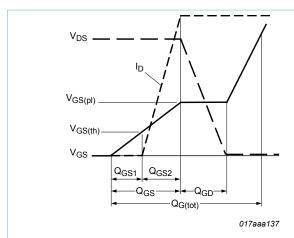


Fig. 28. MOSFET transistor: Gate charge waveform definitions

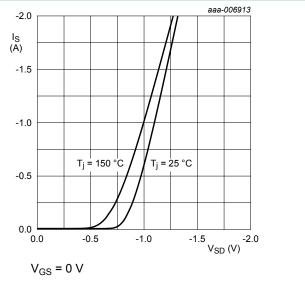
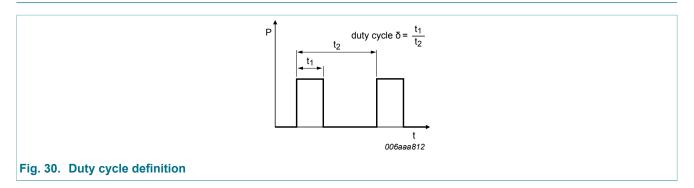
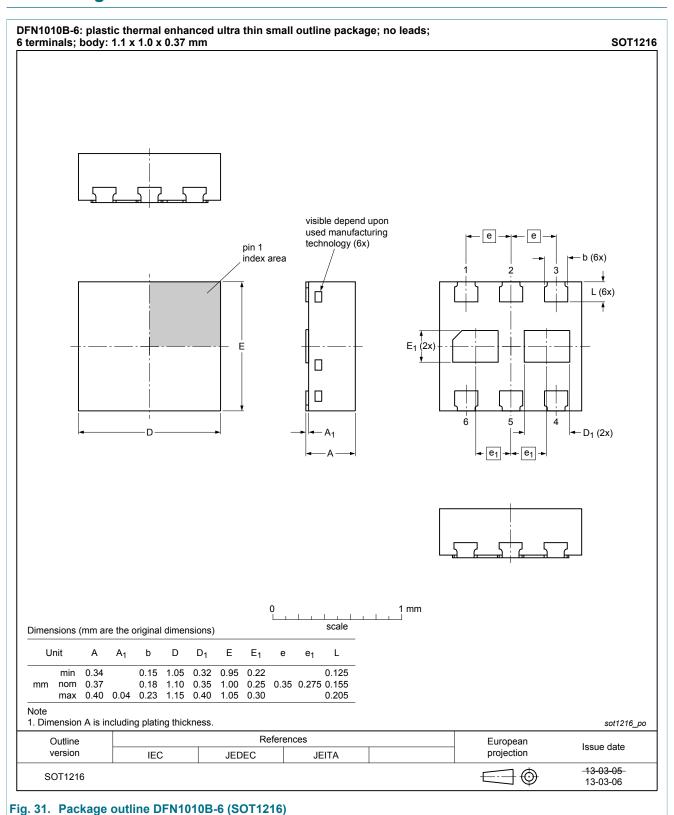


Fig. 29. TR2: source current as a function of sourcedrain voltage; typical values

## 11. Test information



## 12. Package outline

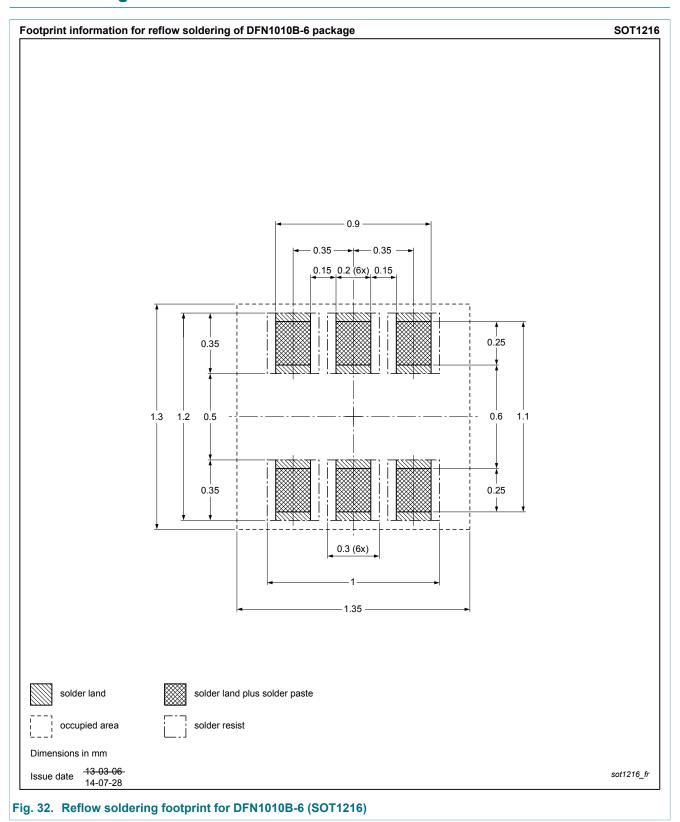


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## 13. Soldering



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## 14. Revision history

#### Table 8. Revision history

Data sheet ID	Release date	Data sheet status	Change notice	Supersedes
PMCXB900UEL v.1	20160628	Product data sheet	-	-

## 15. Legal information

#### 15.1 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.

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- [2] The term 'short data sheet' is explained in section "Definitions".
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