

PMCXB900UE

20 V, complementary N/P-channel Trench MOSFET

30 June 2015 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

- Trench MOSFET technology
- Very low threshold voltage for portable applications: $V_{GS(th)}$ = 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

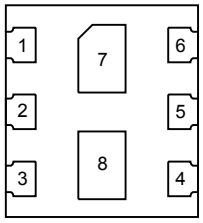
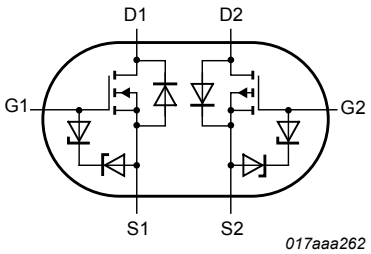
4. Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
TR1 (N-channel), Static characteristics							
R_{DSon}	drain-source on-state resistance	V_{GS} = 4.5 V; I_D = 600 mA; T_j = 25 °C		-	470	620	mΩ
TR2 (P-channel), Static characteristics							
R_{DSon}	drain-source on-state resistance	V_{GS} = -4.5 V; I_D = -500 mA; T_j = 25 °C		-	1.02	1.4	Ω
TR1 (N-channel)							
V_{DS}	drain-source voltage	T_j = 25 °C		-	-	20	V
I_D	drain current	V_{GS} = 4.5 V; T_{amb} = 25 °C	[1]	-	-	600	mA
TR2 (P-channel)							
V_{DS}	drain-source voltage	T_j = 25 °C		-	-	-20	V
I_D	drain current	V_{GS} = -4.5 V; T_{amb} = 25 °C	[1]	-	-	-500	mA

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

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	S1	source TR1	 Transparent top view **DFN1010B-6 (SOT1216)**	
2	G1	gate TR1		
3	D2	drain TR2		
4	S2	source TR2		
5	G2	gate TR2		
6	D1	drain TR1		
7	D1	drain TR1		
8	D2	drain TR2		

5. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
PMCXB900UE	DFN1010B-6	DFN1010B-6: plastic thermal enhanced ultra thin small outline package; no leads; 6 terminals	SOT1216

6. Marking

Table 4. Marking codes

Type number	Marking code
PMCXB900UE	10 00 00

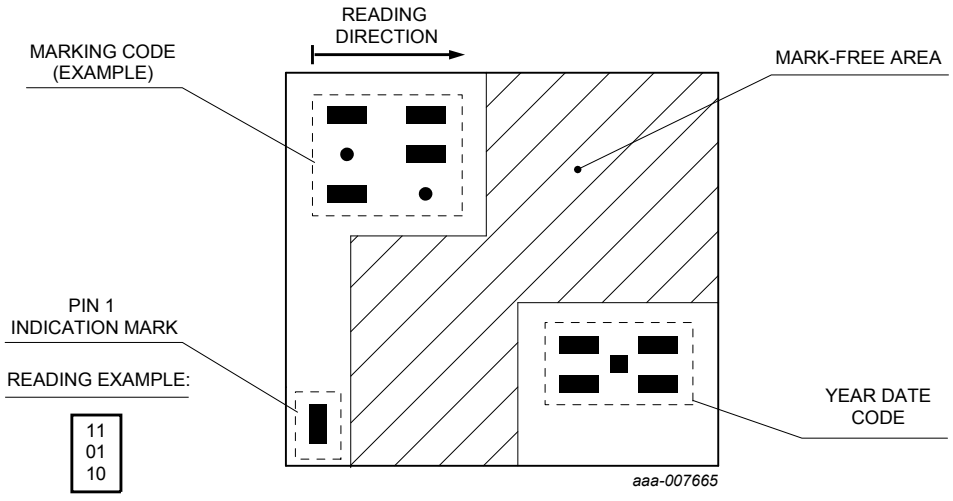


Fig. 1. DFN1010B-6 (SOT1216) binary marking code description

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7. 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			-8	8	V
I_D	drain current	V_{GS} = 4.5 V; T_{amb} = 25 °C	[1]	-	600	mA
		V_{GS} = 4.5 V; T_{amb} = 100 °C	[1]	-	400	mA
I_{DM}	peak drain current	T_{amb} = 25 °C; single pulse; $t_p \leq 10$ µs		-	2.5	A
P_{tot}	total power dissipation	T_{amb} = 25 °C	[2]	-	265	mW
			[1]	-	380	mW
		T_{sp} = 25 °C		-	4025	mW
TR1 (N-channel), Source-drain diode						
I_S	source current	T_{amb} = 25 °C	[1]	-	400	mA
TR2 (P-channel)						
V_{DS}	drain-source voltage	T_j = 25 °C		-	-20	V
V_{GS}	gate-source voltage			-8	8	V
I_D	drain current	V_{GS} = -4.5 V; T_{amb} = 25 °C	[1]	-	-500	mA
		V_{GS} = -4.5 V; T_{amb} = 100 °C	[1]	-	-300	mA
I_{DM}	peak drain current	T_{amb} = 25 °C; single pulse; $t_p \leq 10$ µs		-	-2	A
P_{tot}	total power dissipation	T_{amb} = 25 °C	[2]	-	265	mW
			[1]	-	380	mW
		T_{sp} = 25 °C		-	4025	mW
TR2 (P-channel), Source-drain diode						
I_S	source current	T_{amb} = 25 °C	[1]	-	-350	mA
Per device						
T_j	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 1 cm^2.

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

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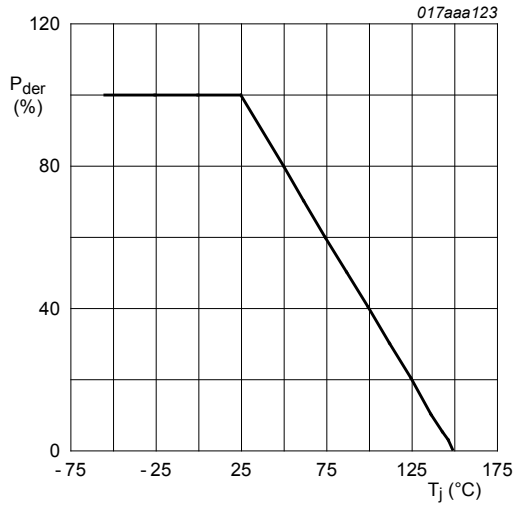


Fig. 2. MOSFET transistor: Normalized total power dissipation as a function of junction temperature

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

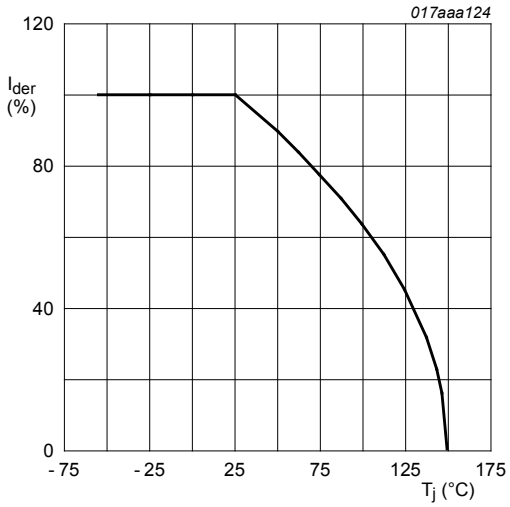
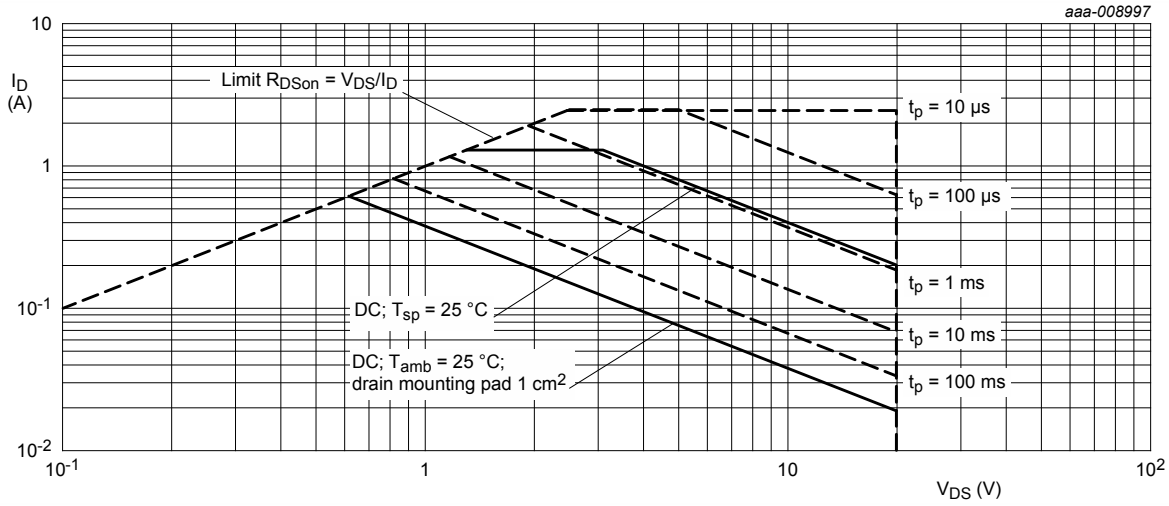


Fig. 3. MOSFET transistor: Normalized continuous drain current as a function of junction temperature

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

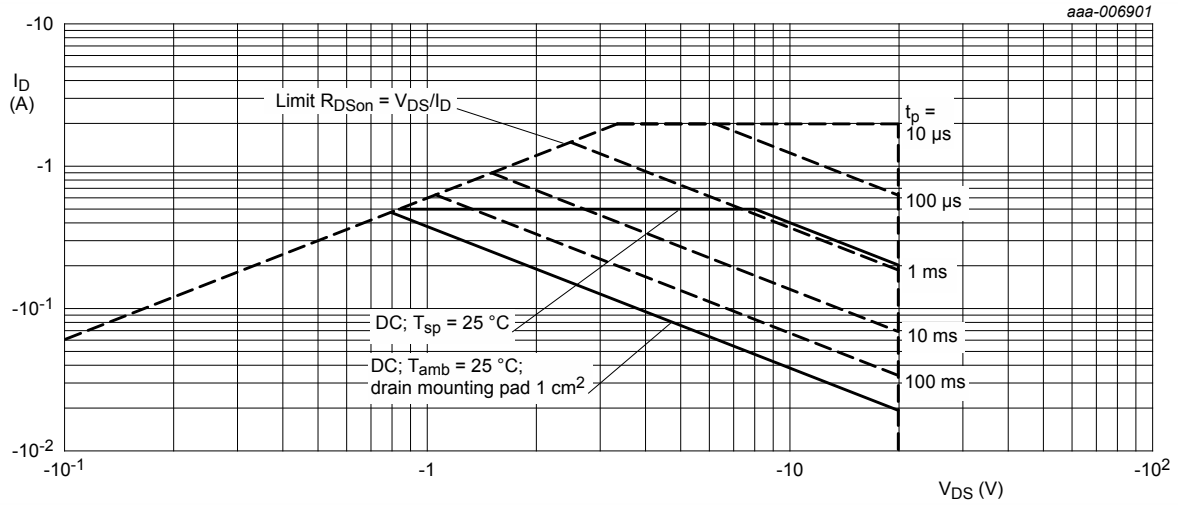


I_{DM} = single pulse

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

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I_{DM} = single pulse

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

8. Thermal characteristics

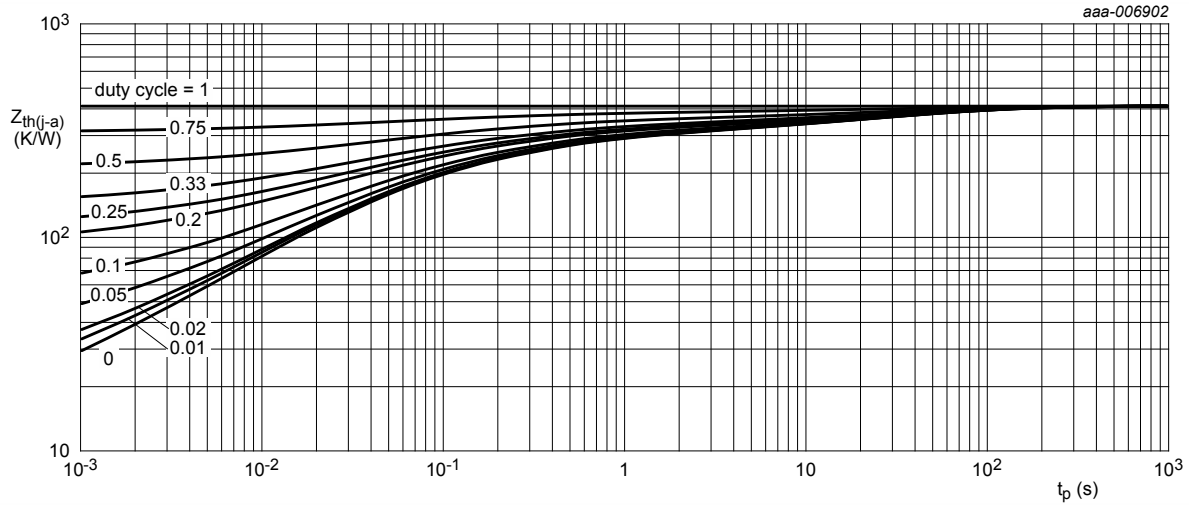
Table 6. Thermal characteristics

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
TR1 (N-channel)							
$R_{th(j-a)}$	thermal resistance from junction to ambient	in free air	[1]	-	410	475	K/W
			[2]	-	285	330	K/W
$R_{th(j-sp)}$	thermal resistance from junction to solder point			-	27	31	K/W
TR2 (P-channel)							
$R_{th(j-a)}$	thermal resistance from junction to ambient	in free air	[1]	-	410	475	K/W
			[2]	-	285	330	K/W
$R_{th(j-sp)}$	thermal resistance from junction to solder point			-	27	31	K/W

[1] Device mounted on an FR4 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 1 cm^2.

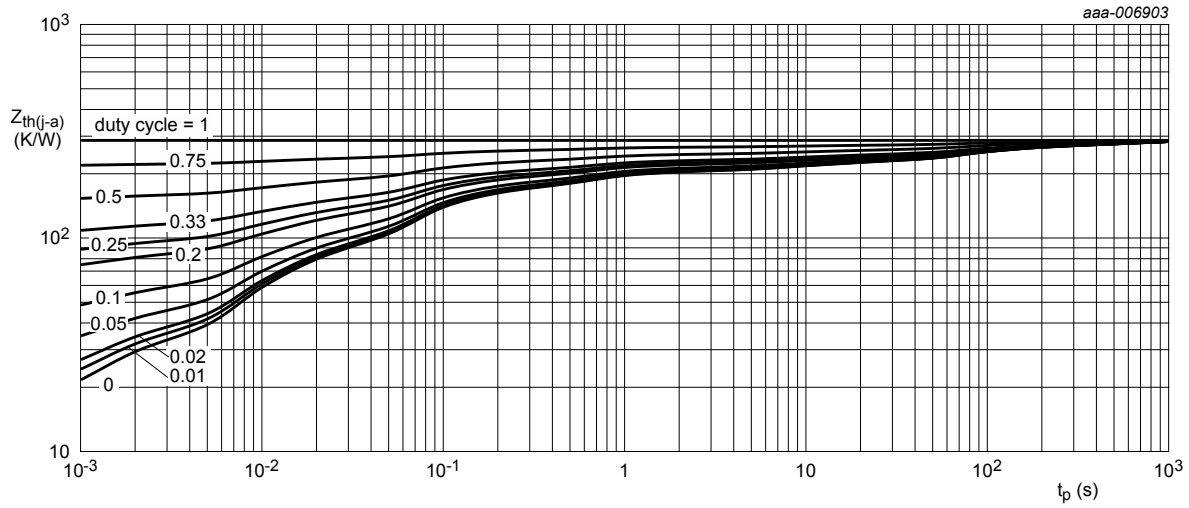
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FR4 PCB, standard footprint

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^2

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

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9. Characteristics

Table 7. Characteristics

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
TR1 (N-channel), Static characteristics							
$V_{(BR)DSS}$	drain-source breakdown voltage	I_D = 250 µA; V_{GS} = 0 V; T_j = 25 °C		20	-	-	V
V_{GSth}	gate-source threshold voltage	I_D = 250 µA; V_{DS} = V_{GS}; T_j = 25 °C		0.45	0.7	0.95	V
I_{DSS}	drain leakage current	V_{DS} = 20 V; V_{GS} = 0 V; T_j = 25 °C		-	-	1	µA
I_{GSS}	gate leakage current	V_{GS} = 8 V; V_{DS} = 0 V; T_j = 25 °C		-	-	10	µA
		V_{GS} = -8 V; V_{DS} = 0 V; T_j = 25 °C		-	-	-10	µA
		V_{GS} = 4.5 V; V_{DS} = 0 V; T_j = 25 °C		-	-	1	µA
		V_{GS} = -4.5 V; V_{DS} = 0 V; T_j = 25 °C		-	-	-1	µA
R_{DSon}	drain-source on-state resistance	V_{GS} = 4.5 V; I_D = 600 mA; T_j = 25 °C		-	470	620	mΩ
		V_{GS} = 4.5 V; I_D = 600 mA; T_j = 150 °C		-	760	1000	mΩ
		V_{GS} = 2.5 V; I_D = 500 mA; T_j = 25 °C		-	620	850	mΩ
		V_{GS} = 1.8 V; I_D = 100 mA; T_j = 25 °C		-	845	1300	mΩ
		V_{GS} = 1.5 V; I_D = 10 mA; T_j = 25 °C		-	1125	3000	mΩ
		V_{GS} = 1.2 V; I_D = 1 mA; T_j = 25 °C		-	2210	-	mΩ
g_{fs}	transfer conductance	V_{DS} = 5 V; I_D = 600 mA; T_j = 25 °C		-	1	-	S
TR1 (N-channel), Dynamic characteristics							
$Q_{G(tot)}$	total gate charge	V_{DS} = 10 V; I_D = 600 mA; V_{GS} = 4.5 V; T_j = 25 °C		-	0.4	0.7	nC
Q_{GS}	gate-source charge			-	0.1	-	nC
Q_{GD}	gate-drain charge			-	0.1	-	nC
C_{iss}	input capacitance	V_{DS} = 10 V; f = 1 MHz; V_{GS} = 0 V; T_j = 25 °C		-	21.3	-	pF
C_{oss}	output capacitance			-	5.4	-	pF
C_{rss}	reverse transfer capacitance			-	4.2	-	pF
$t_{d(on)}$	turn-on delay time	V_{DS} = 10 V; I_D = 600 mA; V_{GS} = 4.5 V; $R_{G(ext)}$ = 6 Ω; T_j = 25 °C		-	5.6	-	ns
t_r	rise time			-	9.2	-	ns
$t_{d(off)}$	turn-off delay time			-	19	-	ns
t_f	fall time			-	51	-	ns
TR1 (N-channel), Source-drain diode characteristics							
V_{SD}	source-drain voltage	I_S = 360 mA; V_{GS} = 0 V; T_j = 25 °C		-	0.8	1.2	V

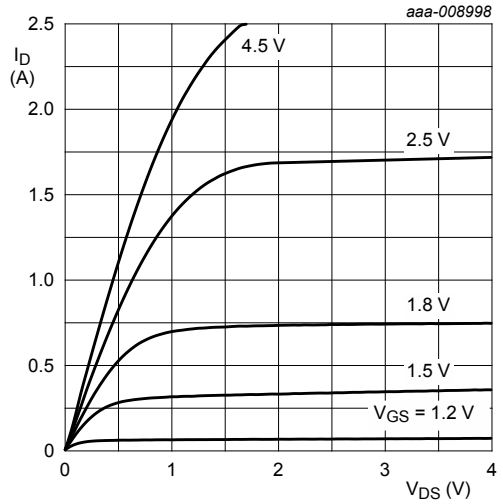
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Symbol	Parameter	Conditions		Min	Typ	Max	Unit
TR2 (P-channel), Static characteristics							
$V_{(BR)DSS}$	drain-source breakdown voltage	I_D = -250 µA; V_{GS} = 0 V; T_j = 25 °C		-20	-	-	V
V_{GSth}	gate-source threshold voltage	I_D = -250 µA; V_{DS} = V_{GS}; T_j = 25 °C		-0.45	-0.7	-0.95	V
I_{DSS}	drain leakage current	V_{DS} = -20 V; V_{GS} = 0 V; T_j = 25 °C		-	-	-1	µA
I_{GSS}	gate leakage current	V_{GS} = 8 V; V_{DS} = 0 V; T_j = 25 °C		-	-	10	µA
		V_{GS} = -8 V; V_{DS} = 0 V; T_j = 25 °C		-	-	-10	µA
		V_{GS} = 4.5 V; V_{DS} = 0 V; T_j = 25 °C		-	-	1	µA
		V_{GS} = -4.5 V; V_{DS} = 0 V; T_j = 25 °C		-	-	-1	µA
R_{DSon}	drain-source on-state resistance	V_{GS} = -4.5 V; I_D = -500 mA; T_j = 25 °C		-	1.02	1.4	Ω
		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
g_{fs}	transfer conductance	V_{DS} = -10 V; I_D = -500 mA; T_j = 25 °C		-	480	-	mS
TR2 (P-channel), Dynamic characteristics							
$Q_{G(tot)}$	total gate charge	V_{DS} = -10 V; I_D = -450 mA; V_{GS} = -4.5 V; T_j = 25 °C		-	1.19	2.1	nC
Q_{GS}	gate-source charge			-	0.17	-	nC
Q_{GD}	gate-drain charge			-	0.1	-	nC
C_{iss}	input capacitance	V_{DS} = -10 V; f = 1 MHz; V_{GS} = 0 V; T_j = 25 °C		-	43	-	pF
C_{oss}	output capacitance			-	14	-	pF
C_{rss}	reverse transfer capacitance			-	8	-	pF
$t_{d(on)}$	turn-on delay time	V_{DS} = -10 V; I_D = -450 mA; V_{GS} = -4.5 V; $R_{G(ext)}$ = 6 Ω; T_j = 25 °C		-	2.3	-	ns
t_r	rise time			-	5	-	ns
$t_{d(off)}$	turn-off delay time			-	13.5	-	ns
t_f	fall time			-	6	-	ns
TR2 (P-channel), Source-drain diode characteristics							
V_{SD}	source-drain voltage	I_S = -115 mA; V_{GS} = 0 V; T_j = 25 °C		-	-0.7	-1.2	V

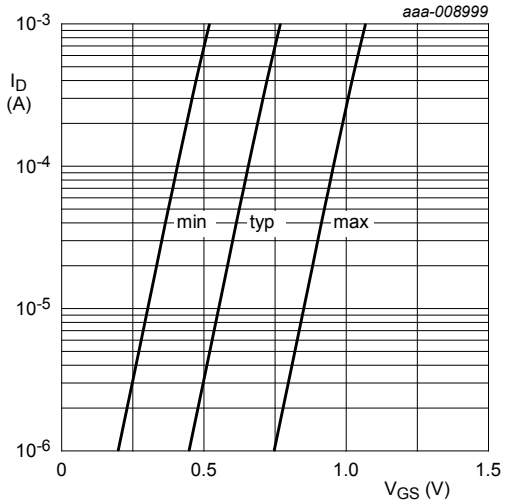
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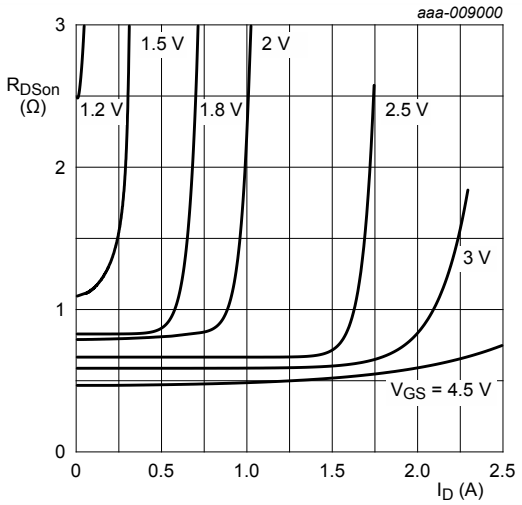
T_j = 25 °C

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



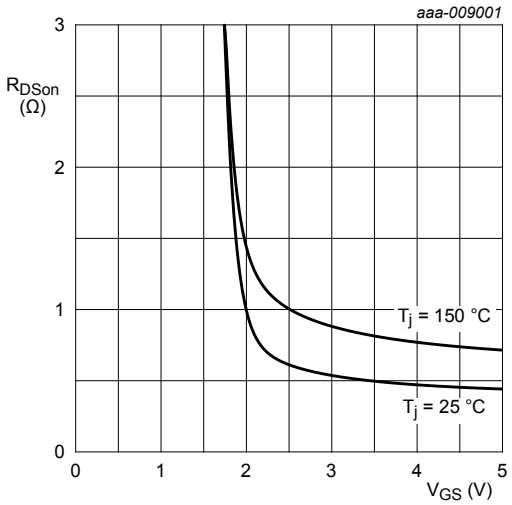
T_j = 25 °C; V_{DS} = 5 V

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



T_j = 25 °C

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

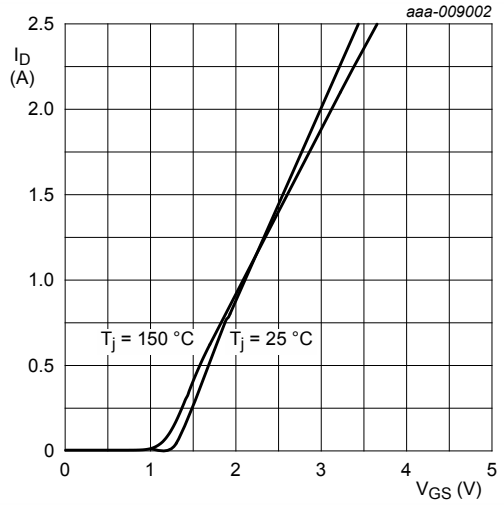


I_D = 0.6 A

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

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

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

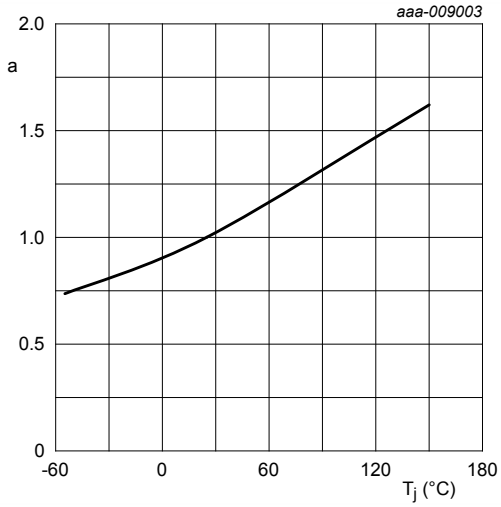
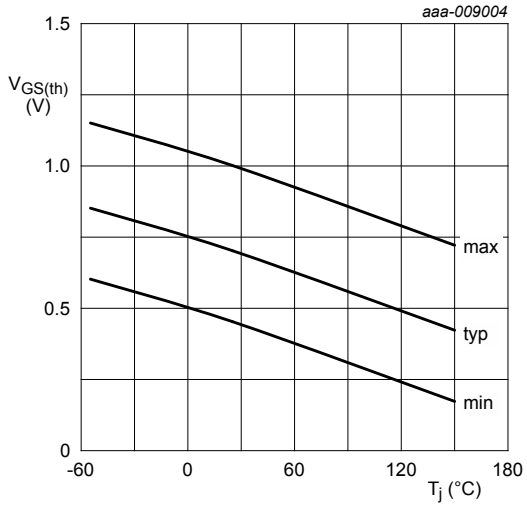


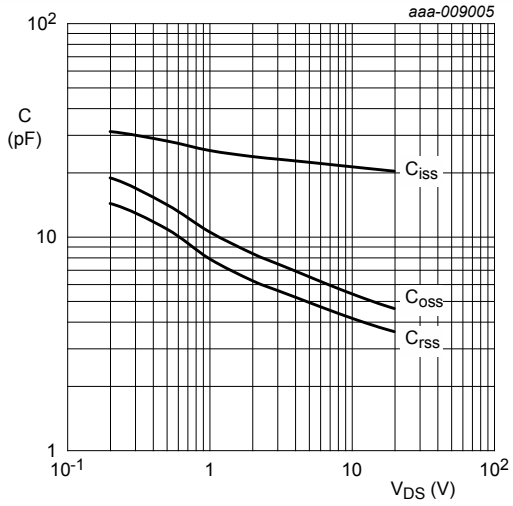
Fig. 13. TR1: normalized drain-source on-state resistance as a function of junction temperature; typical values

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



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

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

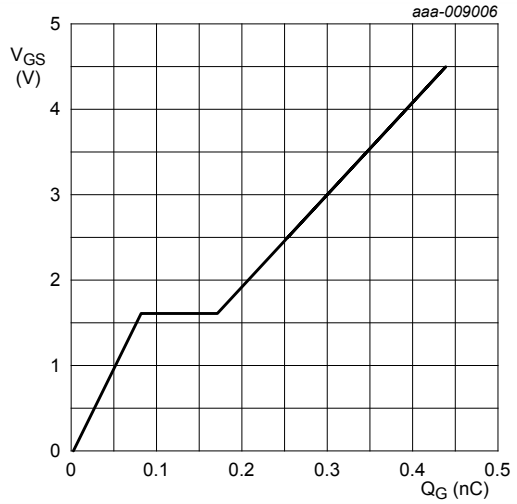


f = 1 MHz; V_{GS} = 0 V

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

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I_D = 0.6 A; V_{DS} = 10 V; T_{amb} = 25 °C

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

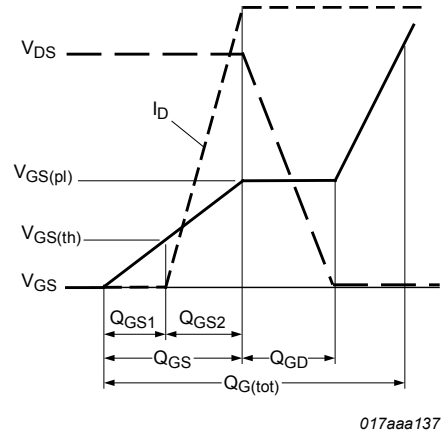
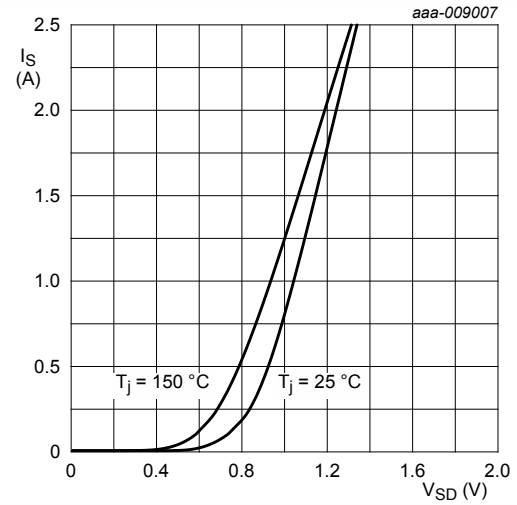
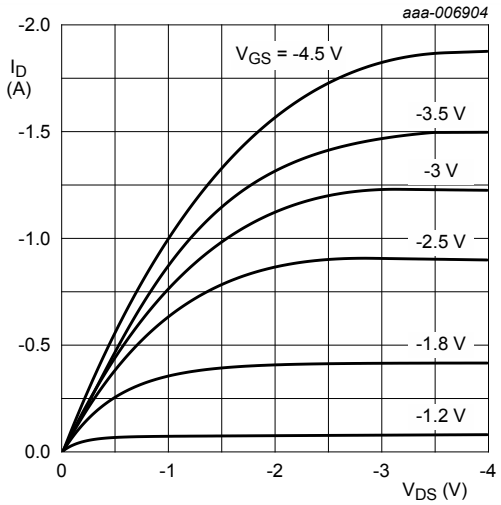


Fig. 17. Gate charge waveform definitions



V_{GS} = 0 V

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

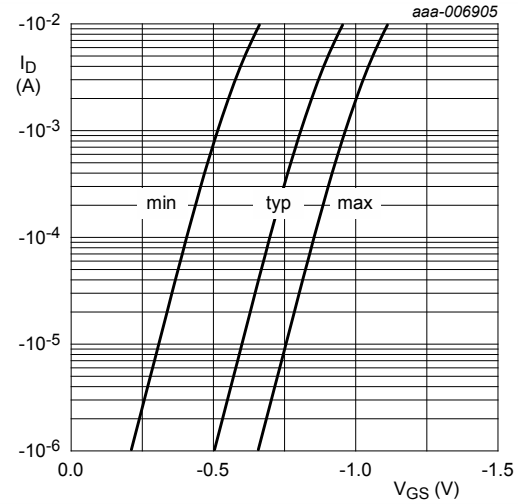


T_j = 25 °C

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

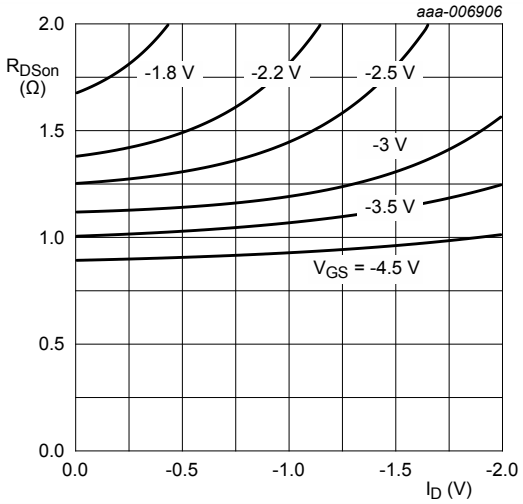
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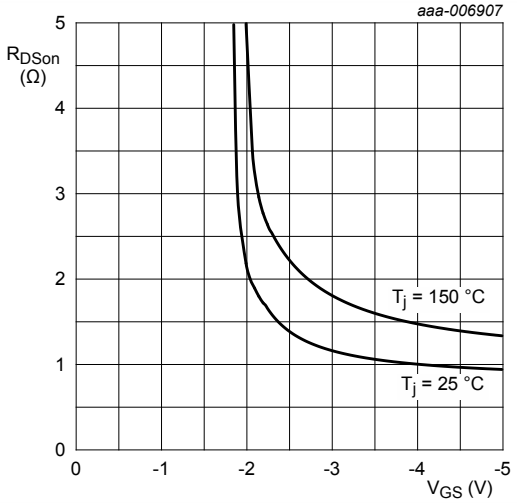
T_j = 25 °C; V_{DS} = -5 V

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



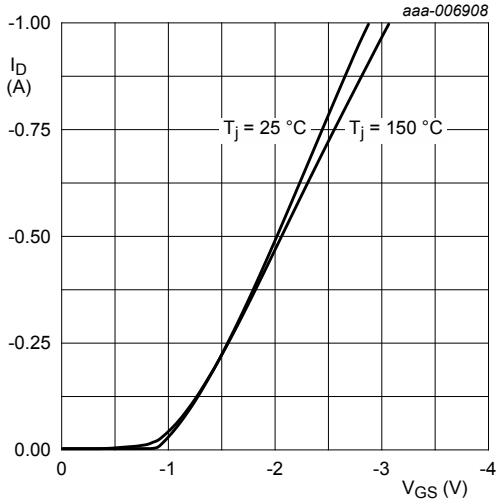
T_j = 25 °C

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



I_D = -0.5 A

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



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

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

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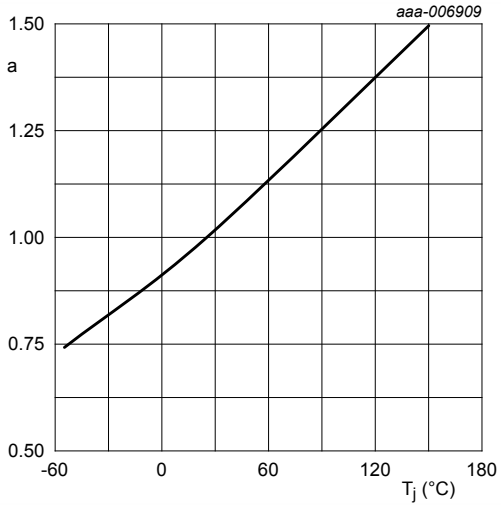
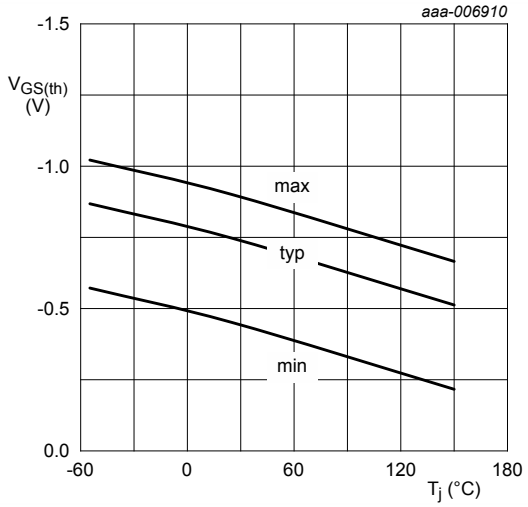


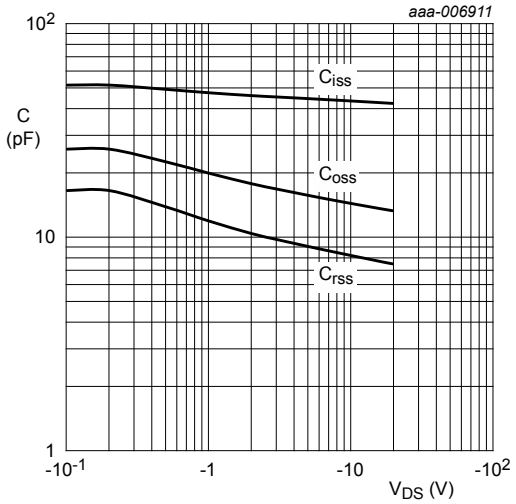
Fig. 24. TR2: normalized drain-source on-state resistance as a function of junction temperature; typical values

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



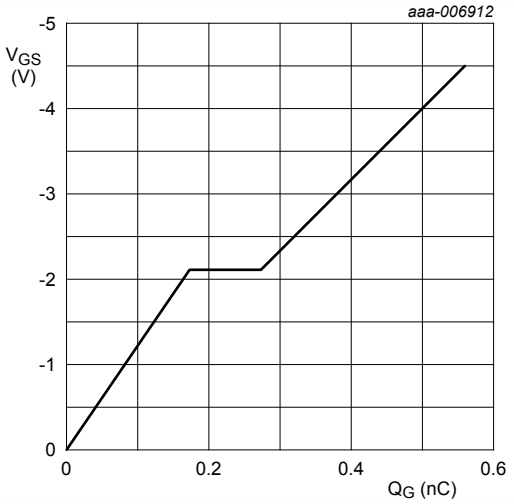
I_D = -0.25 mA; V_{DS} = V_{GS}

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



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

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



I_D = -0.45 A; V_{DS} = -10 V; T_{amb} = 25 °C

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

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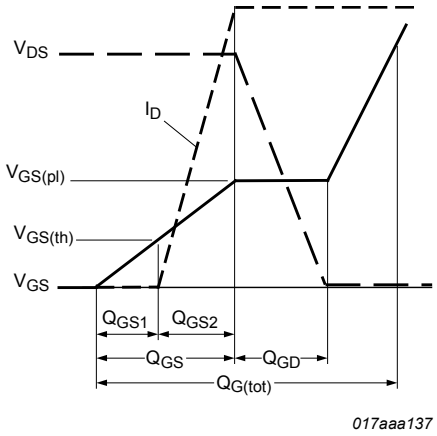
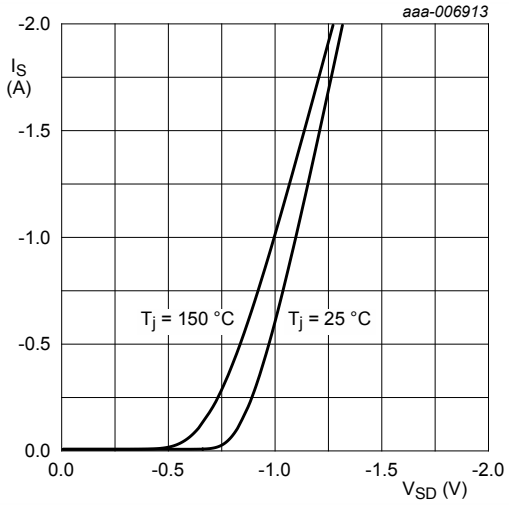


Fig. 28. MOSFET transistor: Gate charge waveform definitions



V_{GS} = 0 V

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

10. Test information

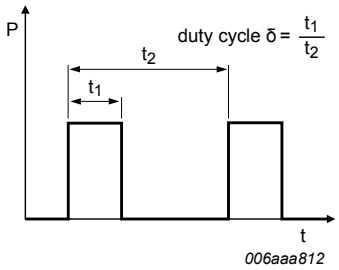


Fig. 30. Duty cycle definition

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11. Package outline

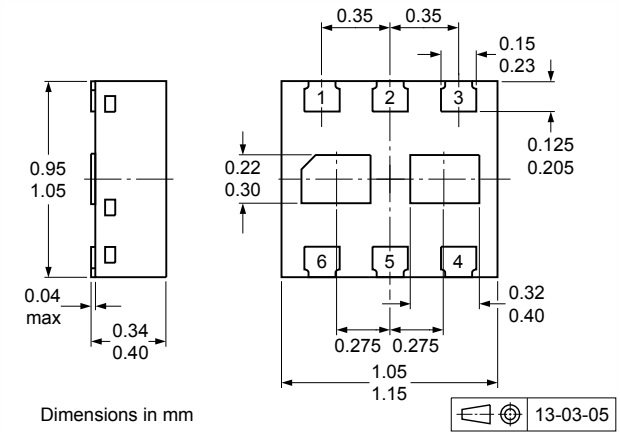


Fig. 31. Package outline DFN1010B-6 (SOT1216)

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12. Soldering

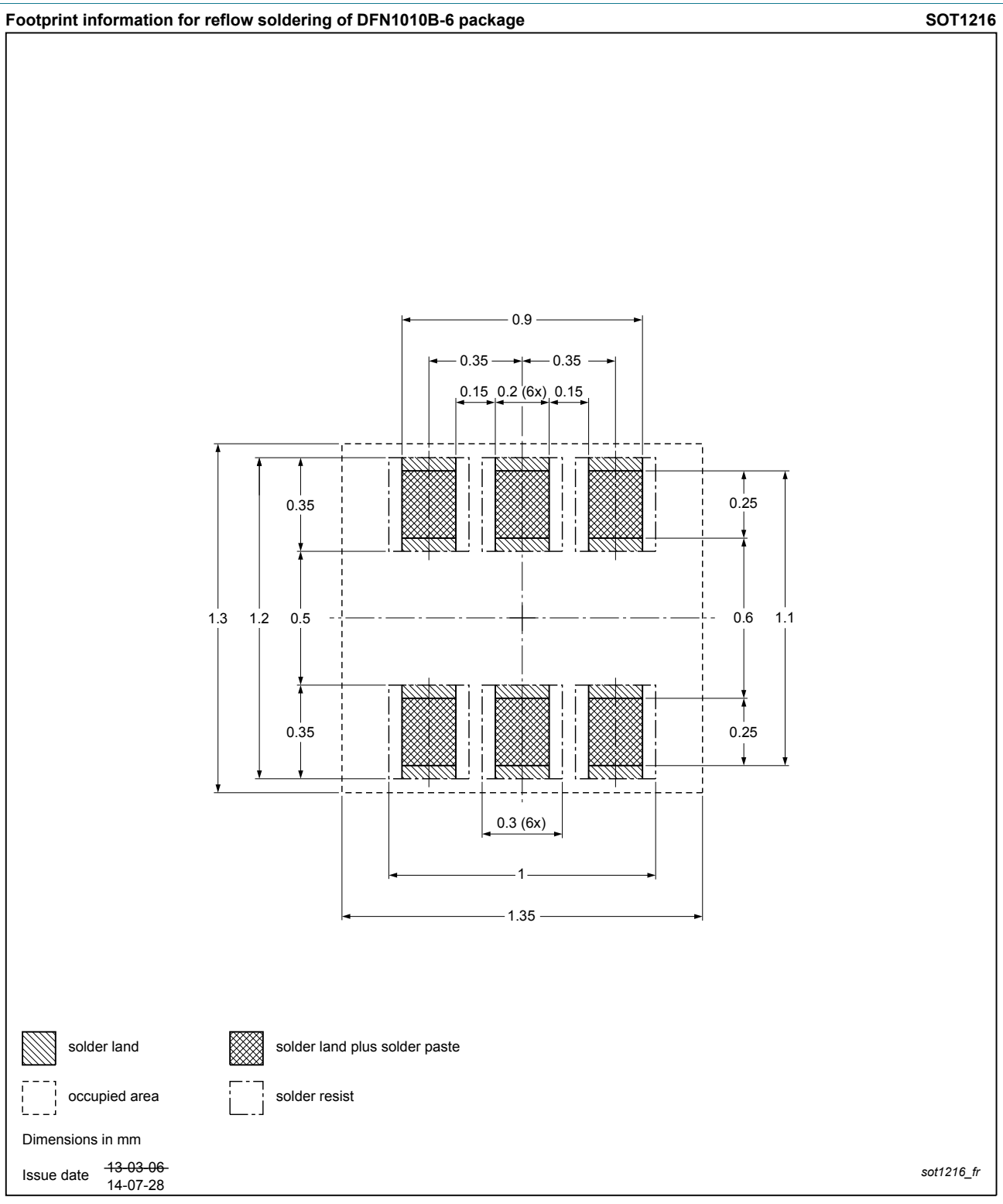


Fig. 32. Reflow soldering footprint for DFN1010B-6 (SOT1216)

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13. Revision history

Table 8. Revision history

Data sheet ID	Release date	Data sheet status	Change notice	Supersedes
PMCXB900UE v.2	20150630	Product data sheet	-	PMCXB900UE v.1
Modification:	• Change of binary marking code position.			
PMCXB900UE v.1	20131007	Product data sheet	-	-

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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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