



PMCXB900UEL

20 V, complementary N/P-channel Trench MOSFET

28 June 2016

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: $V_{GS(th)} = 0.7 \text{ V}$
- Leadless ultra small and ultra thin SMD plastic package: $1.1 \times 1.0 \times 0.37 \text{ mm}$
- ElectroStatic Discharge (ESD) protection $> 1 \text{ kV HBM}$

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

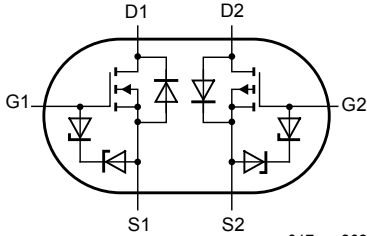
Symbol	Parameter	Conditions		Min	Typ	Max	Unit
TR1 (N-channel)							
V_{DS}	drain-source voltage	$T_J = 25 \text{ }^{\circ}\text{C}$		-	-	20	V
V_{GS}	gate-source voltage			-8	-	8	V
I_D	drain current	$V_{GS} = 4.5 \text{ V}; T_{amb} = 25 \text{ }^{\circ}\text{C}$	[1]	-	-	600	mA
TR2 (P-channel)							
V_{DS}	drain-source voltage	$T_J = 25 \text{ }^{\circ}\text{C}$		-	-	-20	V
V_{GS}	gate-source voltage			-8	-	8	V
TR1 (N-channel), Static characteristics							
$R_{DS(on)}$	drain-source on-state resistance	$V_{GS} = 4.5 \text{ V}; I_D = 600 \text{ mA}; T_J = 25 \text{ }^{\circ}\text{C}$		-	470	620	m Ω

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

nexperia

5. Pinning information

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	S1	source TR1	 Transparent top view DFN1010B-6 (SOT1216)	 017aaa262
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		

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

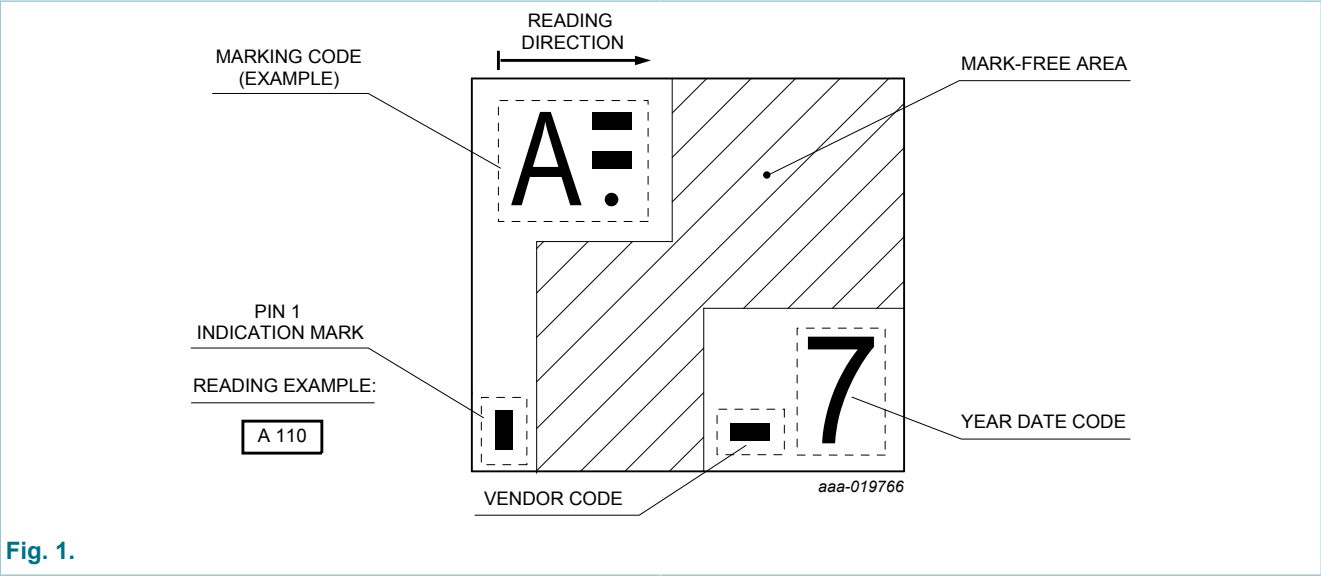


Fig. 1.

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-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 ≤ 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
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 ≤ 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
Per device						
T _j	junction temperature			-55	150	°C
T _{amb}	ambient temperature			-55	150	°C
T _{stg}	storage temperature			-65	150	°C
TR1 (N-channel), Source-drain diode						
I _S	source current	T _{amb} = 25 °C	[1]	-	400	mA
TR2 (P-channel), Source-drain diode						
I _S	source current	T _{amb} = 25 °C	[1]	-	-350	mA

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

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

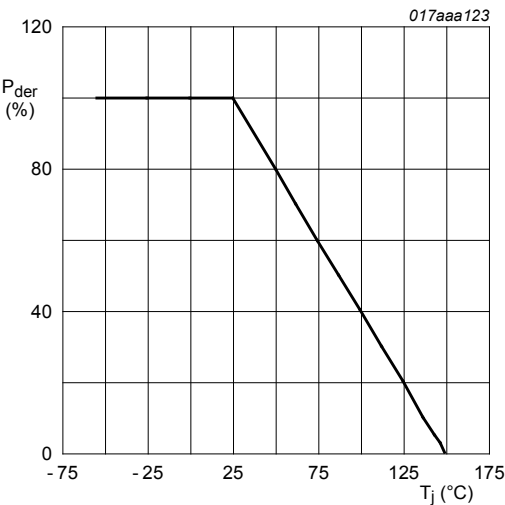


Fig. 2. MOSFET transistor: Normalized total power dissipation as a function of junction temperature

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

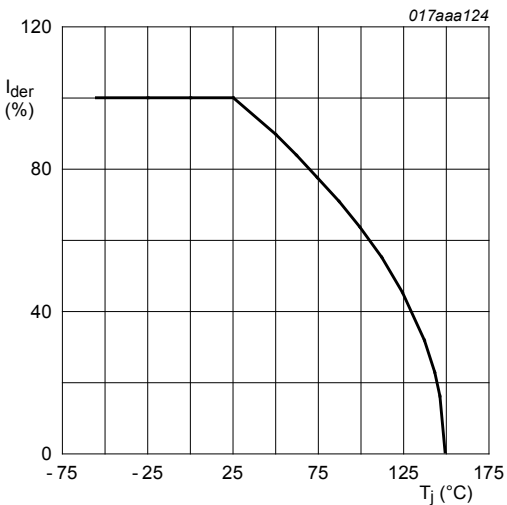


Fig. 3. MOSFET transistor: Normalized continuous drain current as a function of junction temperature

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

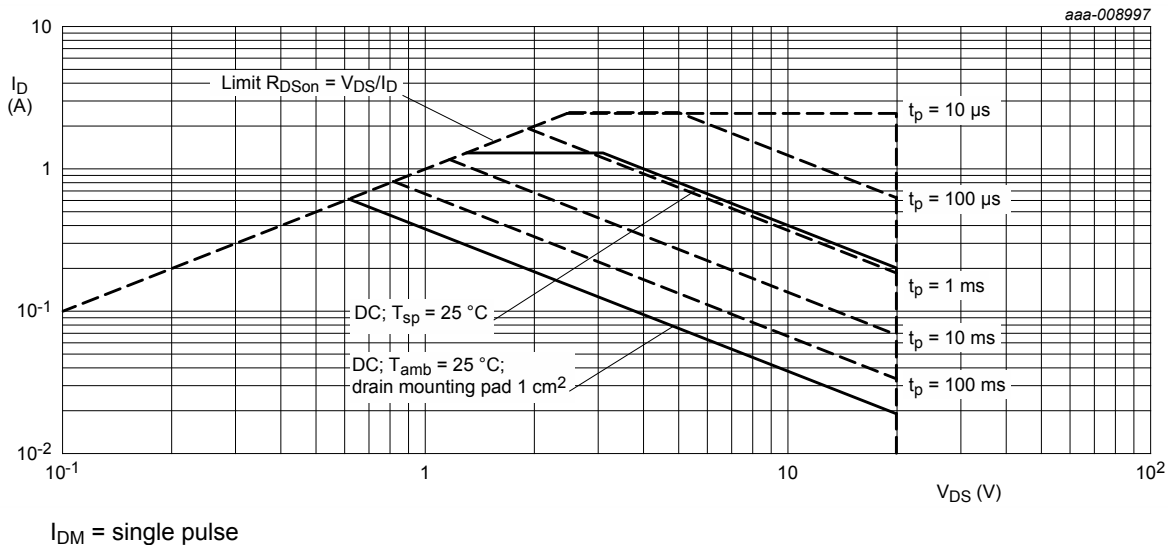
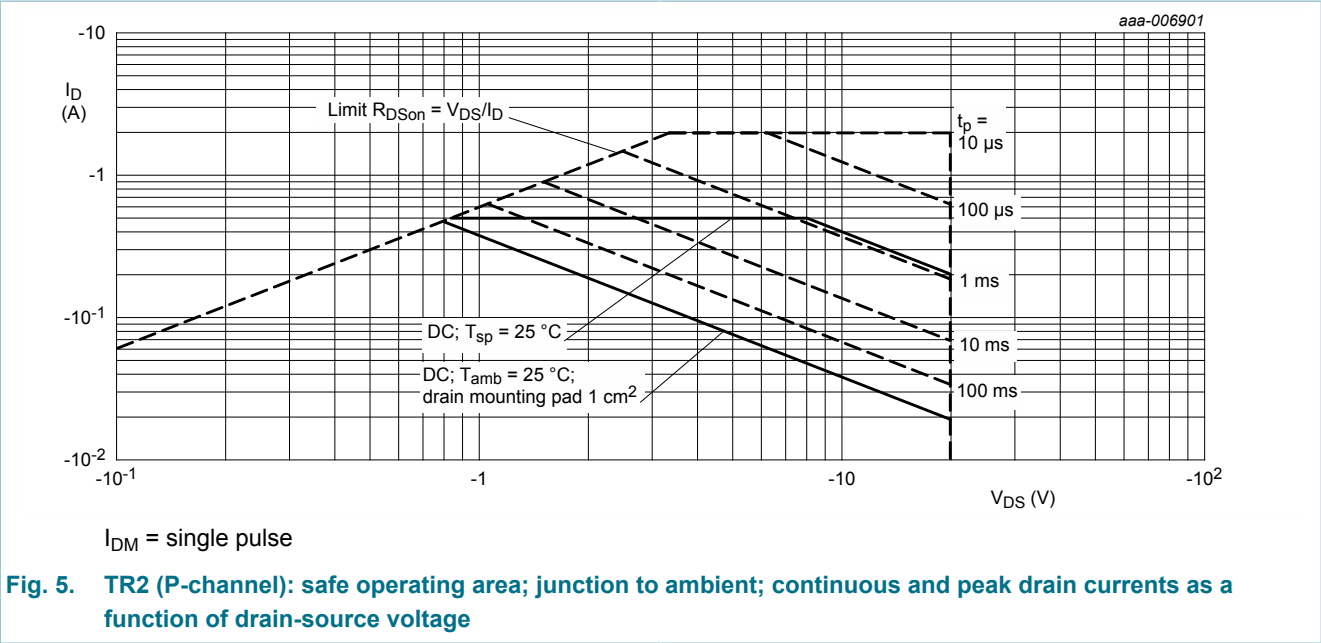


Fig. 4. TR1 (N-channel): safe operating area; junction to ambient; continuous and peak drain currents as a function of drain-source voltage

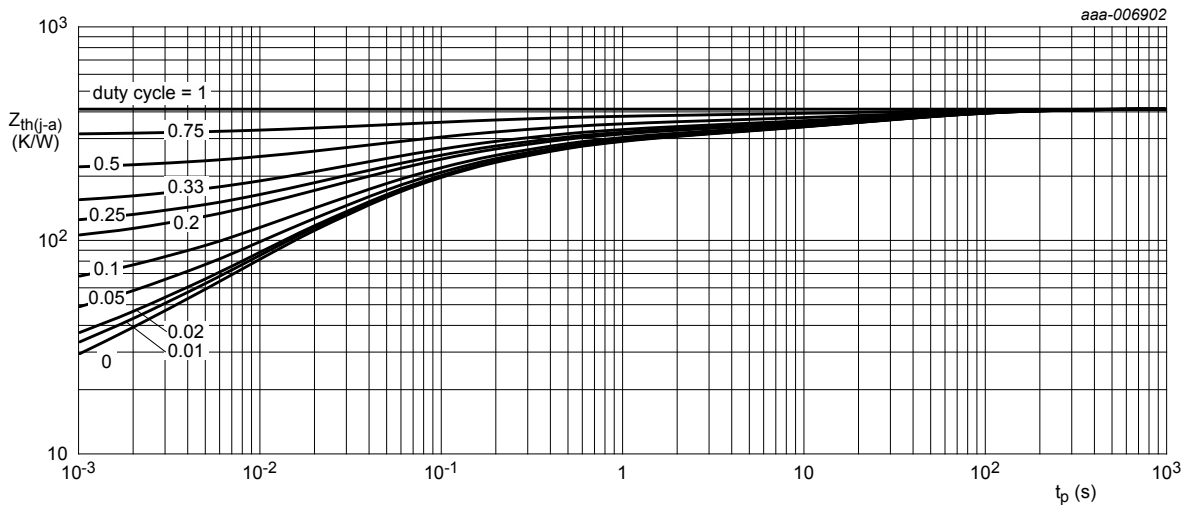


9. Thermal characteristics

Table 6. Thermal characteristics

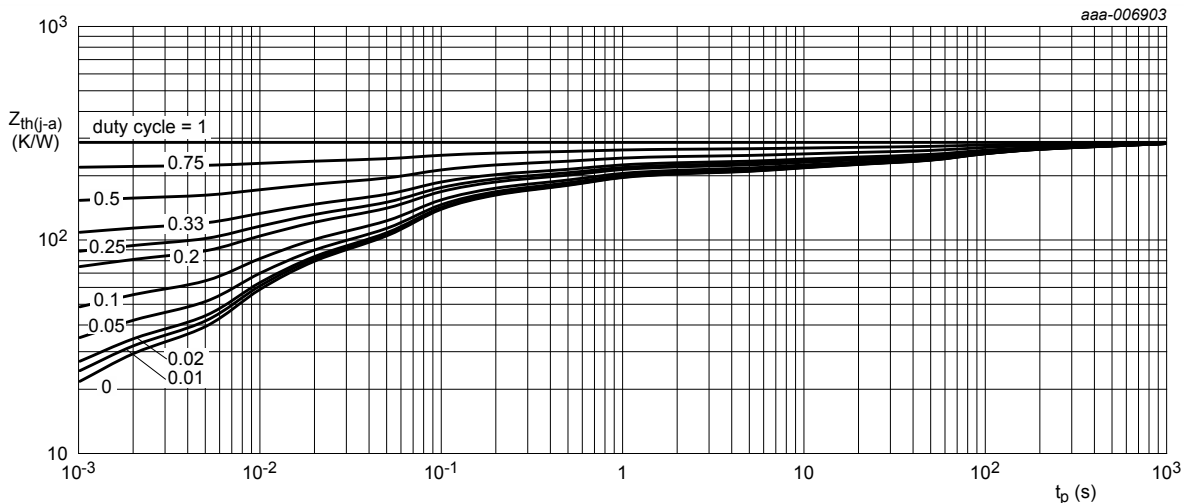
Symbol	Parameter	Conditions		Min	Typ	Max	Unit
TR1 (N-channel)							
$R_{th(j-a)}$	thermal resistance from junction to ambient	in free air	[1]	-	410	475	K/W
			[2]	-	285	330	K/W
$R_{th(j-sp)}$	thermal resistance from junction to solder point			-	27	31	K/W
TR2 (P-channel)							
$R_{th(j-a)}$	thermal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



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 cm²

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

10. Characteristics

Table 7. Characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
TR1 (N-channel), Static characteristics						
$V_{(BR)DSS}$	drain-source breakdown voltage	$I_D = 250 \mu A$; $V_{GS} = 0 V$; $T_j = 25 ^\circ C$	20	-	-	V
V_{GSth}	gate-source threshold voltage	$I_D = 250 \mu A$; $V_{DS}=V_{GS}$; $T_j = 25 ^\circ C$	0.45	0.7	0.95	V
I_{DSS}	drain leakage current	$V_{DS} = 20 V$; $V_{GS} = 0 V$; $T_j = 25 ^\circ C$	-	-	1	μA
		$V_{DS} = 5 V$; $V_{GS} = 0 V$; $T_j = 25 ^\circ C$	-	-	25	nA
I_{GSS}	gate leakage current	$V_{GS} = 8 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	10	μA
		$V_{GS} = -8 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	-10	μA
		$V_{GS} = 4.5 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	1	μA
		$V_{GS} = -4.5 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	-1	μA
		$V_{GS} = 1.8 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	50	nA
		$V_{GS} = -1.8 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	-50	nA
R_{DSon}	drain-source on-state resistance	$V_{GS} = 4.5 V$; $I_D = 600 mA$; $T_j = 25 ^\circ C$	-	470	620	m Ω
		$V_{GS} = 4.5 V$; $I_D = 600 mA$; $T_j = 150 ^\circ C$	-	760	1000	m Ω
		$V_{GS} = 2.5 V$; $I_D = 500 mA$; $T_j = 25 ^\circ C$	-	620	850	m Ω
		$V_{GS} = 1.8 V$; $I_D = 100 mA$; $T_j = 25 ^\circ C$	-	845	1300	m Ω
		$V_{GS} = 1.5 V$; $I_D = 10 mA$; $T_j = 25 ^\circ C$	-	1125	3000	m Ω
		$V_{GS} = 1.2 V$; $I_D = 1 mA$; $T_j = 25 ^\circ C$	-	2210	-	m Ω
g_{fs}	forward transconductance	$V_{DS} = 5 V$; $I_D = 600 mA$; $T_j = 25 ^\circ C$	-	1	-	S
TR2 (P-channel), Static characteristics						
$V_{(BR)DSS}$	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	$I_D = -250 \mu A$; $V_{DS}=V_{GS}$; $T_j = 25 ^\circ C$	-0.45	-0.7	-0.95	V
I_{DSS}	drain leakage current	$V_{DS} = -20 V$; $V_{GS} = 0 V$; $T_j = 25 ^\circ C$	-	-	-1	μA
		$V_{DS} = -5 V$; $V_{GS} = 0 V$; $T_j = 25 ^\circ C$	-	-	-25	nA
I_{GSS}	gate leakage current	$V_{GS} = 8 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	10	μA
		$V_{GS} = -8 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	-10	μA
		$V_{GS} = 4.5 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	1	μA
		$V_{GS} = -4.5 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	-1	μA
		$V_{GS} = 1.8 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	50	nA
		$V_{GS} = -1.8 V$; $V_{DS} = 0 V$; $T_j = 25 ^\circ C$	-	-	-50	nA

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
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}	forward transconductance	V _{DS} = -10 V; I _D = -500 mA; T _j = 25 °C		-	480	-	mS
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
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
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
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

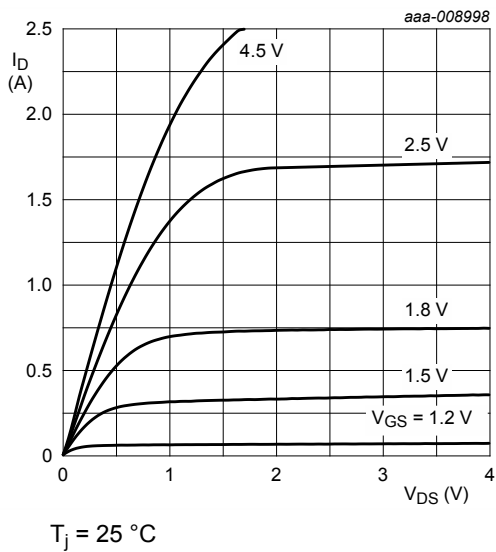


Fig. 8. TR1: output characteristics; drain current as a function of drain-source voltage; typical values

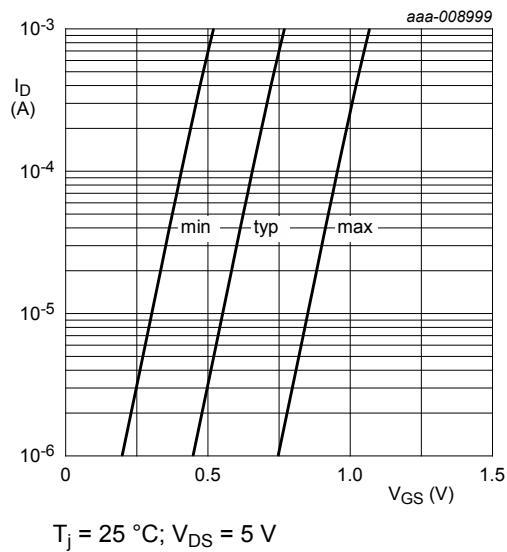


Fig. 9. TR1: sub-threshold drain current as a function of gate-source voltage

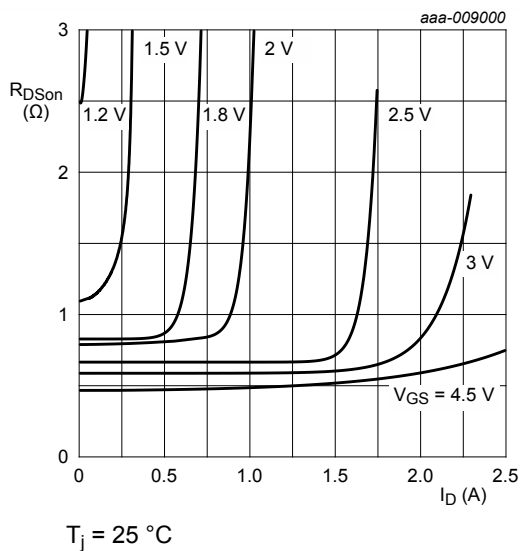


Fig. 10. TR1: drain-source on-state resistance as a function of drain current; typical values

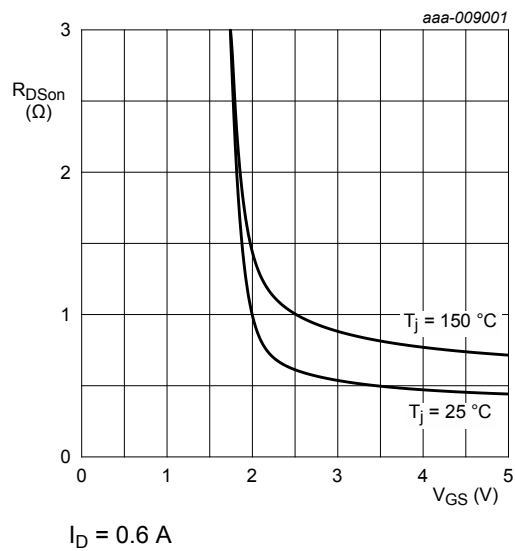
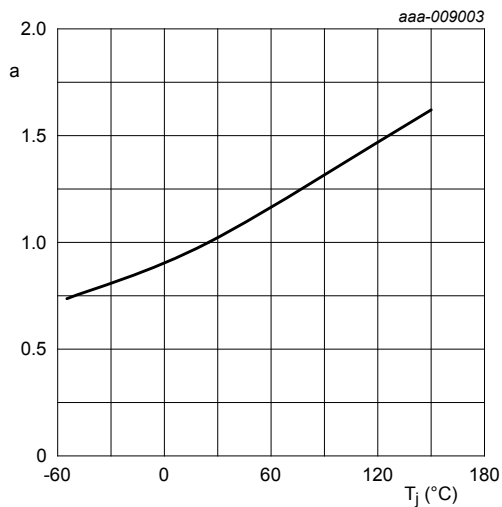
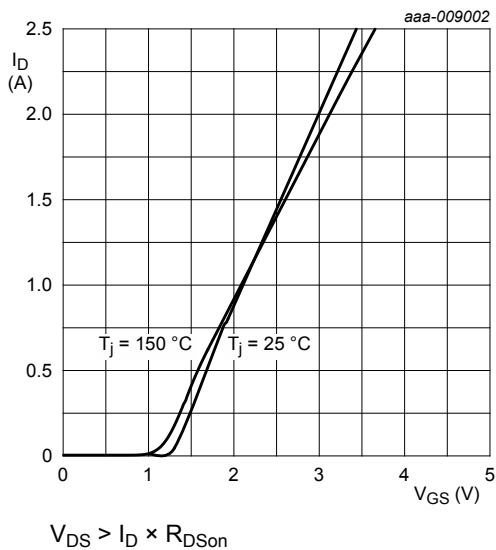
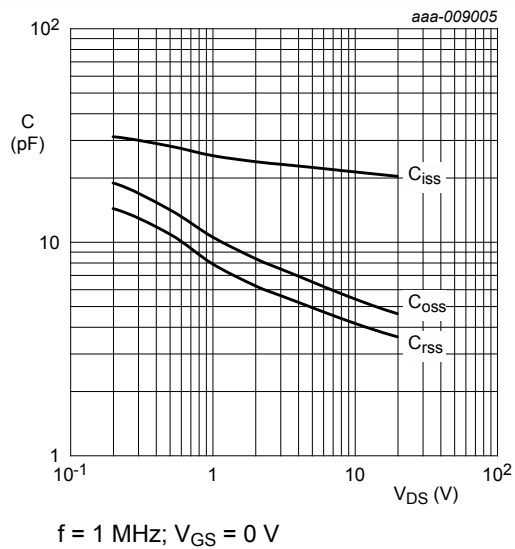
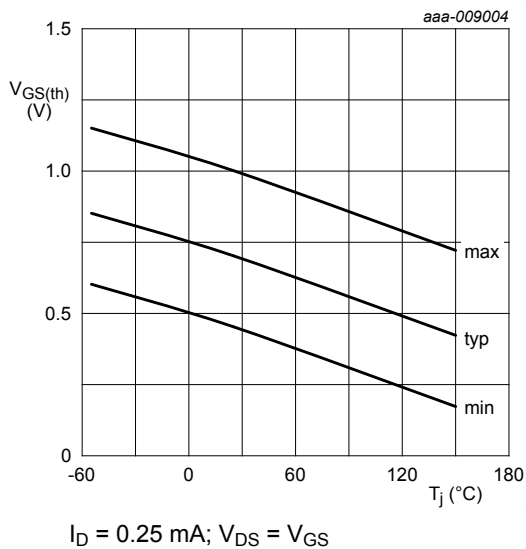


Fig. 11. TR1: drain-source on-state resistance as a function of gate-source voltage; typical values



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



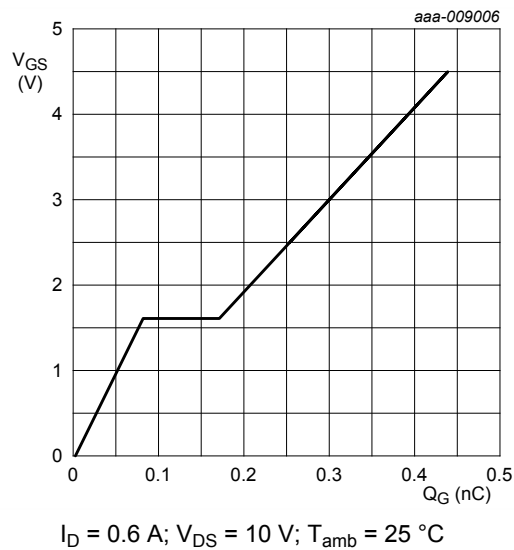


Fig. 16. TR1: gate-source voltage as a function of gate charge; typical values

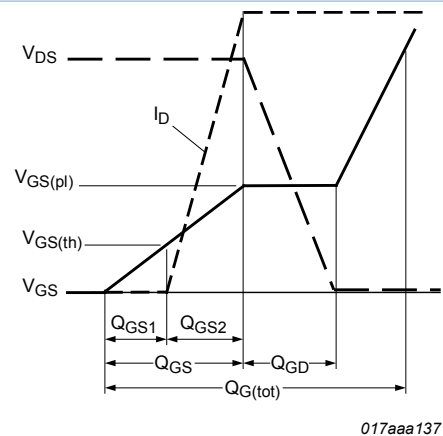


Fig. 17. Gate charge waveform definitions

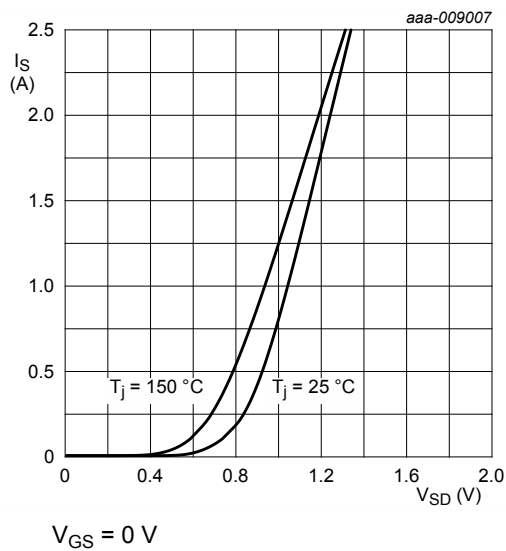


Fig. 18. TR1: source current as a function of source-drain voltage; typical values

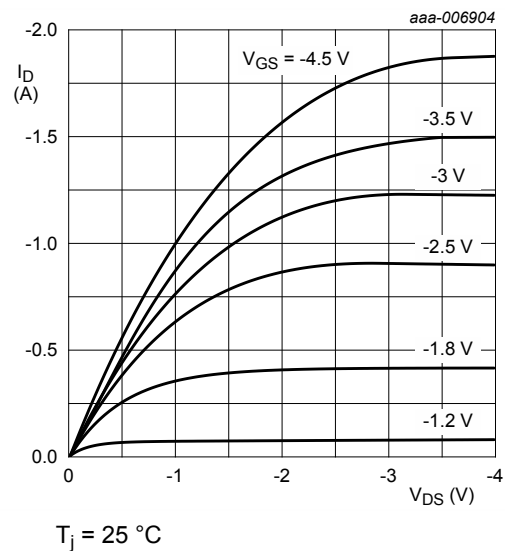


Fig. 19. TR2: output characteristics; drain current as a function of drain-source voltage; typical values

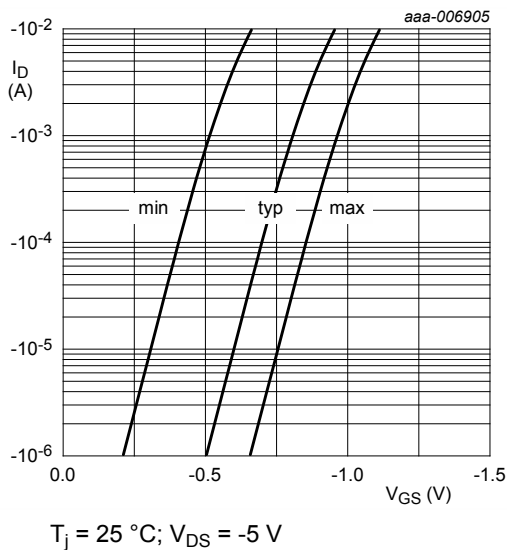


Fig. 20. TR2: sub-threshold drain current as a function of gate-source voltage

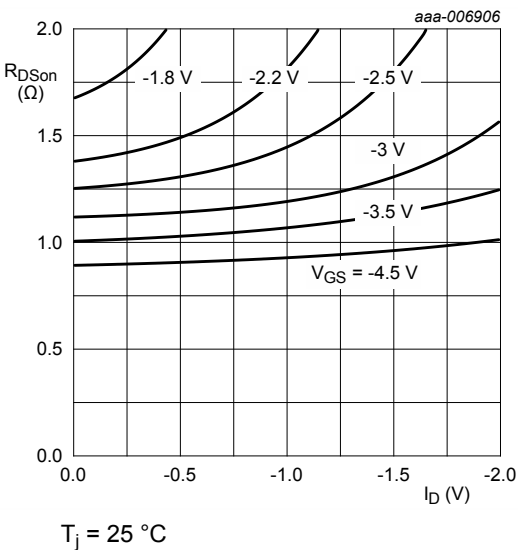


Fig. 21. TR2: drain-source on-state resistance as a function of drain current; typical values

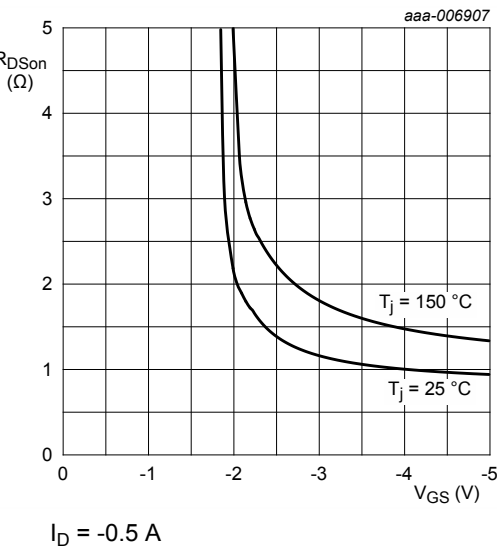


Fig. 22. TR2: drain-source on-state resistance as a function of gate-source voltage; typical values

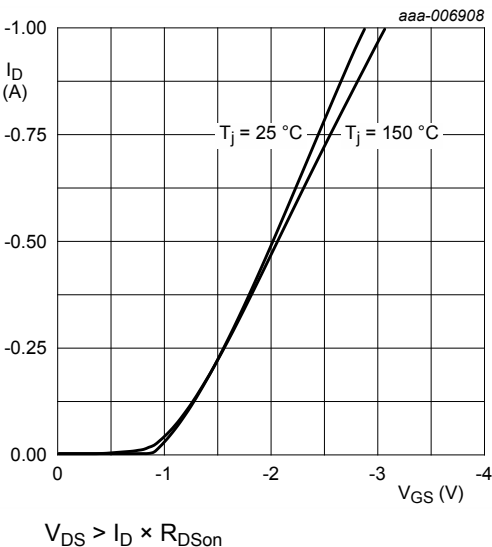


Fig. 23. TR2: transfer characteristics; drain current as a function of gate-source voltage; typical values

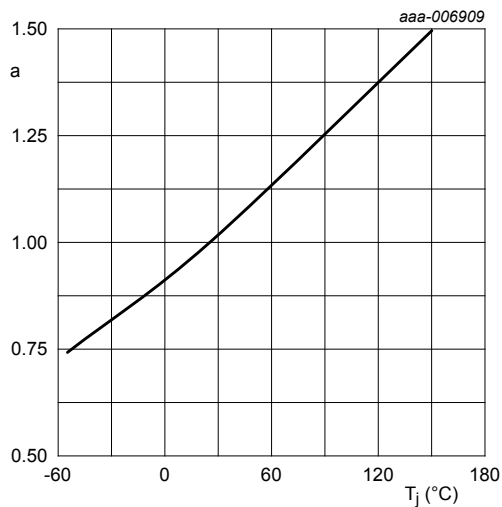
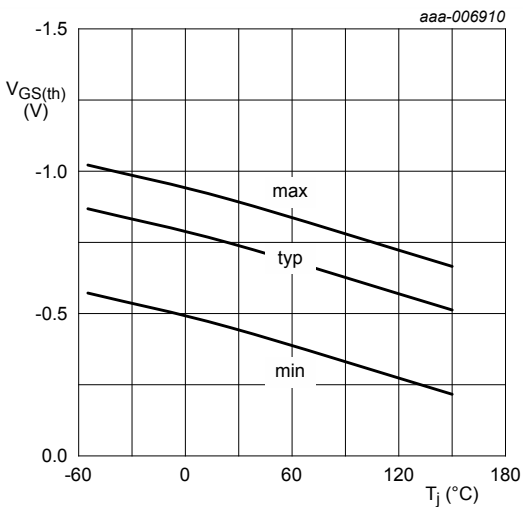


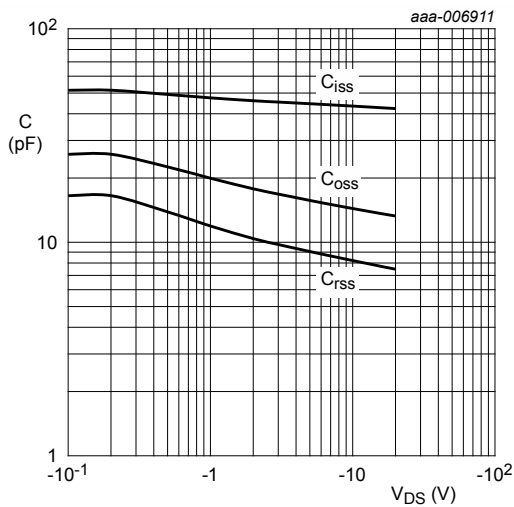
Fig. 24. TR2: normalized drain-source on-state resistance as a function of junction temperature; typical values

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



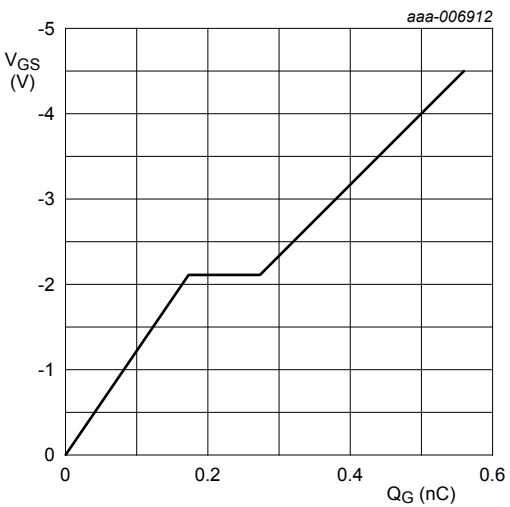
$I_D = -0.25\text{ mA}$; $V_{DS} = V_{GS}$

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



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

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



$I_D = -0.45\text{ A}$; $V_{DS} = -10\text{ V}$; $T_{amb} = 25^{\circ}\text{ C}$

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

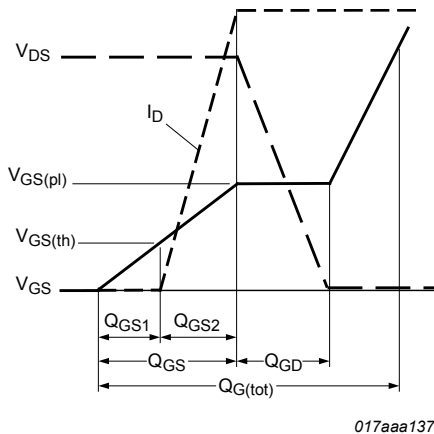


Fig. 28. MOSFET transistor: Gate charge waveform definitions

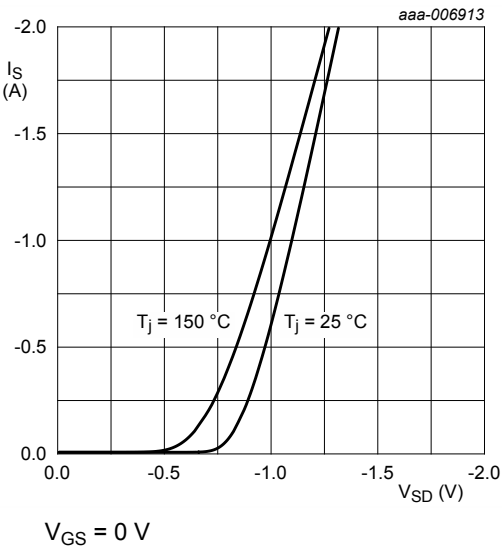


Fig. 29. TR2: source current as a function of source-drain voltage; typical values

11. Test information

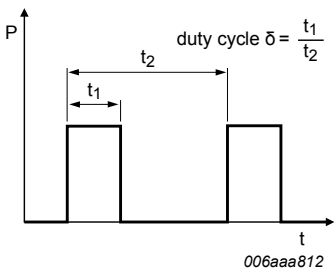
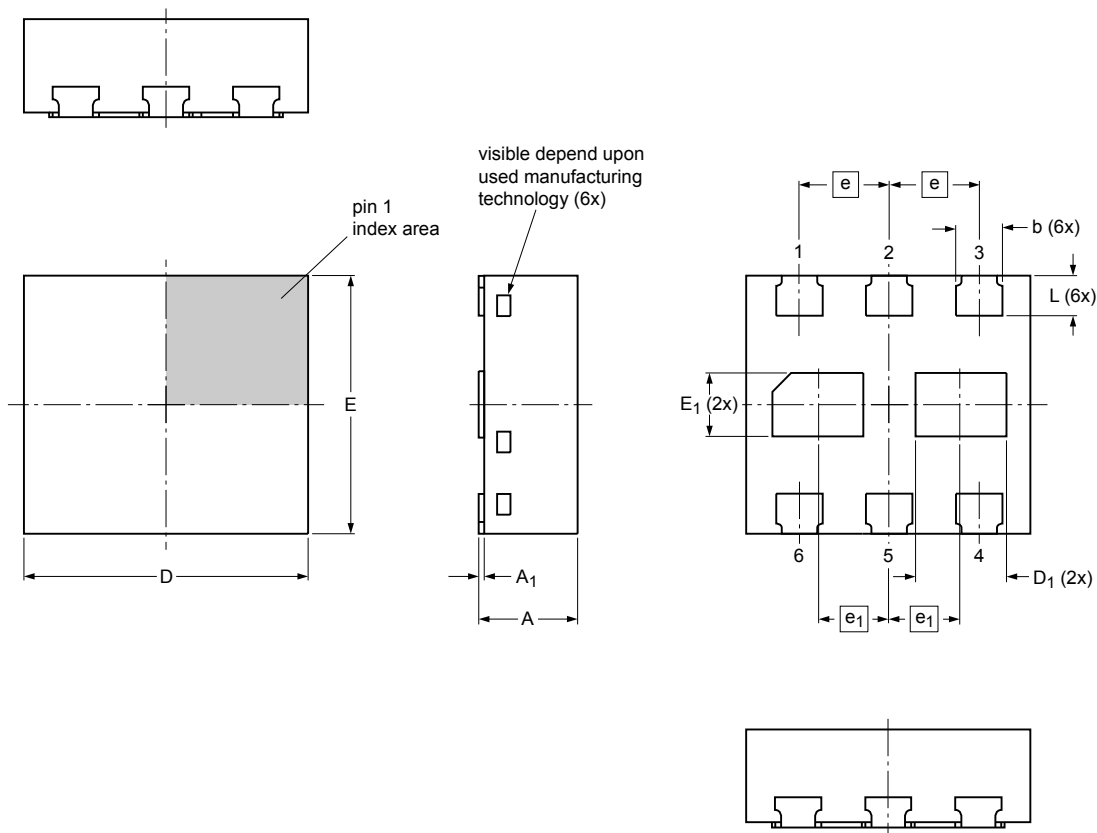


Fig. 30. Duty cycle definition

12. Package outline

DFN1010B-6: plastic thermal enhanced ultra thin small outline package; no leads;
6 terminals; body: 1.1 x 1.0 x 0.37 mm

SOT1216



0 1 mm
scale

Dimensions (mm are the original dimensions)

Unit	A	A ₁	b	D	D ₁	E	E ₁	e	e ₁	L
min	0.34		0.15	1.05	0.32	0.95	0.22			0.125
mm	nom		0.18	1.10	0.35	1.00	0.25	0.35	0.275	0.155
	max	0.40	0.04	0.23	1.15	0.40	1.05	0.30		0.205

Note
1. Dimension A is including plating thickness.

Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT1216						13-03-05 13-03-06

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

13. Soldering

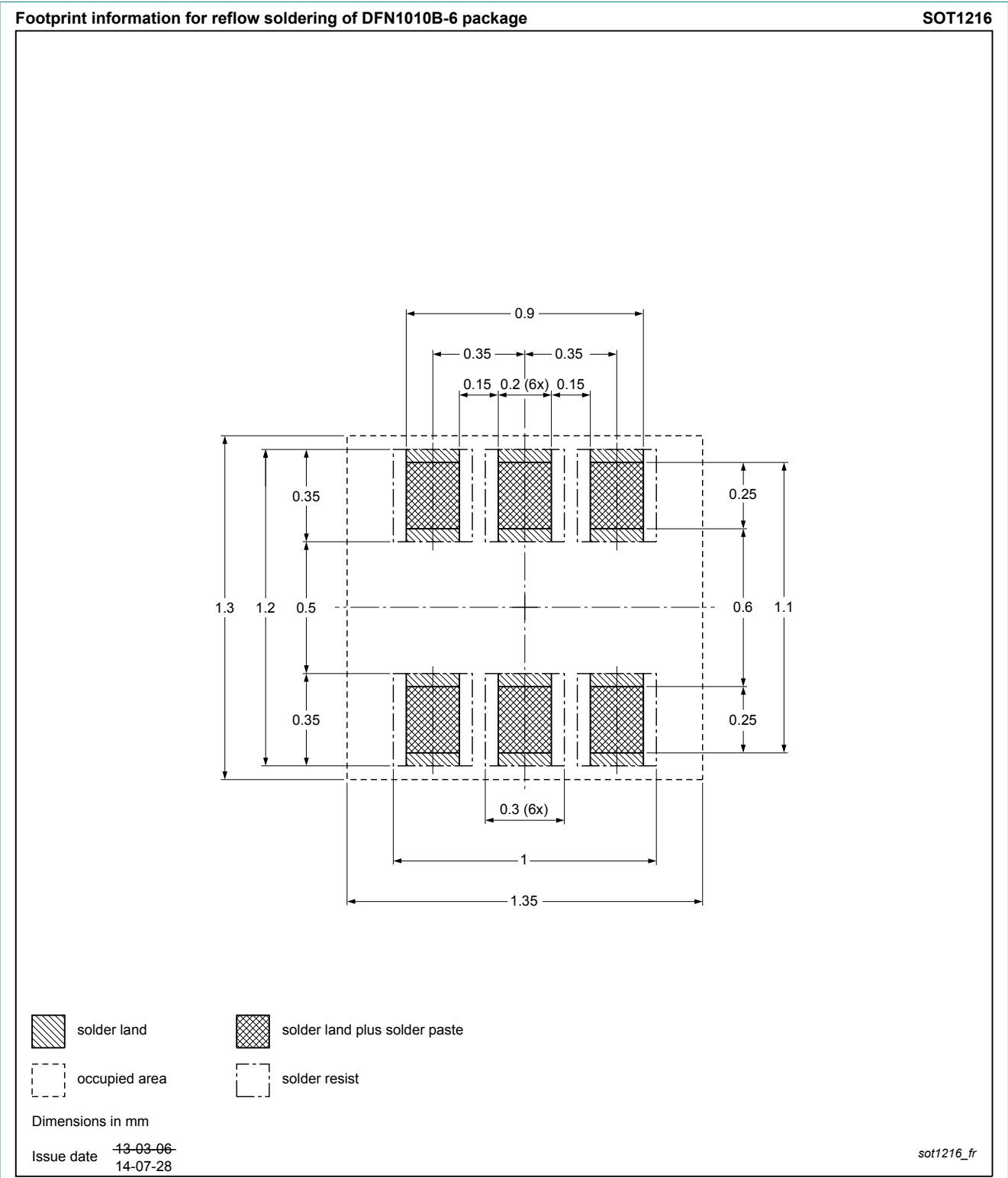


Fig. 32. Reflow soldering footprint for DFN1010B-6 (SOT1216)

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.

- [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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