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NXP Semiconductors/Freescale Semiconductor, Inc. PMC85XP,115

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Datasheet of PMC85XP,115 - MOSFET NPN/P CH 30V 2.6A 6HUSON

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1. General description

P-channel enhancement mode Field-Effect Transistor (FET) in Trench MOSFET technology and NPN Resistor-Equipped Transistor (RET) together in a leadless medium power DFN2020-6 (SOT1118) Surface-Mounted Device (SMD) plastic package.

2. Features and benefits

- Trench MOSFET technology
- NPN transistor built-in bias resistors
- Small and leadless ultra thin SMD plastic package: 2 x 2 x 0.65 mm
- Exposed drain pad for excellent thermal conduction

3. Applications

- Charging switch for portable devices
- High-side load switch
- USB port overvoltage protection
- Power management in battery-driven portables
- Hard disk and computing power management

4. Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
P-channel Tre	nch MOSFET						
V _{DS}	drain-source voltage	T _j = 25 °C		-	-	-30	V
V _{GS}	gate-source voltage			-12	-	12	V
I _D	drain current	V _{GS} = -4.5 V; T _{amb} = 25 °C; t ≤ 5 s	[1]	-	-	-3.4	Α
P-channel Tre	nch MOSFET; static cha	aracteristics					
R _{DSon}	drain-source on-state resistance	V_{GS} = -4.5 V; I_D = -2.6 A; T_j = 25 °C		-	85	110	mΩ
NPN RET							
V _{CEO}	collector-emitter voltage	T _{amb} = 25 °C; open base		-	-	50	V
I _O	output current			-	-	100	mA





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30 V P-channel MOSFET with pre-biased NPN transistor

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
NPN RET						
R1	bias resistor 1		3.3	4.7	6.1	kΩ
R2	bias resistor 2		-	47	-	kΩ

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

5. Pinning information

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	E	emitter	6 5 4	C G S
2	В	base		
3	D	drain	7 8	
4	S	source		R2 R1
5	G	gate	1 2 3	
6	С	collector	Transparent top view DFN2020-6 (SOT1118)	E B D 017aaa396
7	С	collector	D1 142020-0 (0011110)	011 aaa390
8	D	drain	_	

6. Ordering information

Table 3. Ordering information

Type number	Package					
	Name	Description	Version			
PMC85XP	DFN2020-6	plastic thermal enhanced ultra thin small outline package; no leads; 6 terminals; body 2 x 2 x 0.65 mm	SOT1118			

7. Marking

Table 4. Marking codes

Type number	Marking code
PMC85XP	1K

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8. Limiting values

Table 5. Limiting values

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

Symbol	Parameter	Conditions		Min	Max	Unit
P-channel	Trench MOSFET					
V_{DS}	drain-source voltage	T _j = 25 °C		-	-30	V
V_{GS}	gate-source voltage			-12	12	V
I _D	drain current	V _{GS} = -4.5 V; T _{amb} = 25 °C; t ≤ 5 s	[1]	-	-3.4	Α
		V _{GS} = -4.5 V; T _{amb} = 25 °C	[1]	-	-2.6	Α
		V _{GS} = -4.5 V; T _{amb} = 100 °C	[1]	-	-1.6	Α
I _{DM}	peak drain current	T_{amb} = 25 °C; single pulse; $t_p \le 10 \mu s$		-	-8	Α
P _{tot}	total power dissipation	T _{amb} = 25 °C	[2]	-	485	mW
			[1]	-	1170	mW
		T _{sp} = 25 °C	<u>[2]</u>	-	8300	mW
P-channel	Trench MOSFET; source-drain	diode				
I _S	source current	T _{amb} = 25 °C	[1]	-	-1.2	Α
NPN RET						
V_{CBO}	collector-base voltage	T _{amb} = 25 °C; open emitter		-	50	V
V_{CEO}	collector-emitter voltage	T _{amb} = 25 °C; open base		-	50	V
V _{EBO}	emitter-base voltage	T _{amb} = 25 °C; open collector		-	10	V
VI	input voltage	positive		-	30	V
		negative		-	-5	V
I _O	output current			-	100	mA
I _{CM}	peak collector current			-	100	mA
P _{tot}	total power dissipation	T _{amb} = 25 °C	[2]	-	465	mW
			[1]	-	985	mW
		$T_{sp} = 25 ^{\circ}C$	[2]	-	4160	mW
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 Printed-Circuit Board (PCB), single-sided copper, tin-plated and mounting pad for drain 6 cm²

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

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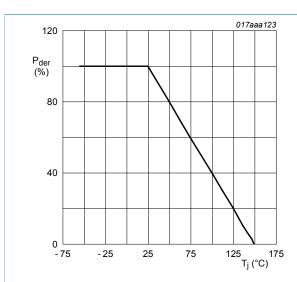


Fig. 1. Normalized total power dissipation as a function of junction temperature

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

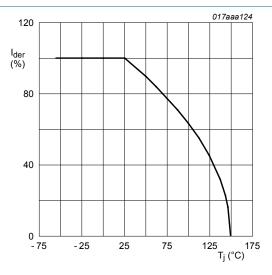


Fig. 2. Normalized continuous drain current as a function of junction temperature

$$I_{der} = \frac{I_D}{I_{DQ5^{\circ}O}} \times 100 \%$$

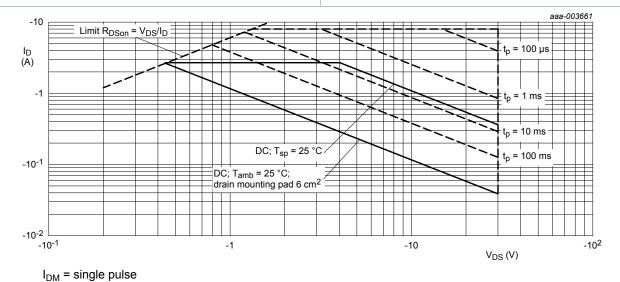


Fig. 3. Safe operating area; junction to ambient; continuous and peak drain currents as a function of drainsource voltage

9. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
P-channel Trench MOSFET							
R _{th(j-a)} thermal resistance from junction to ambient	in free air	[1]	-	223	256	K/W	
		[2]	-	93	107	K/W	
	ambient	t ≤ 5 s; in free air	[2]	-	55	63	K/W
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Symbol	Parameter	Conditions		Min	Тур	Max	Unit
R _{th(j-sp)}	thermal resistance from junction to solder point			-	10	15	K/W
NPN RET			,	'	'		
$R_{\text{th(j-a)}}$ thermal resistance in from junction to ambient	thermal resistance	in free air	[1]	-	233	270	K/W
		[2]	-	110	127	K/W	
$R_{th(j-sp)}$	thermal resistance from junction to solder point			-	25	30	K/W

- [1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper; tin-plated and standard footprint.
- [2] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and mounting pad for drain 6 cm²

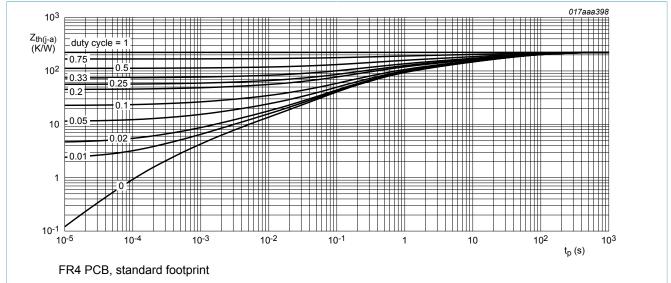


Fig. 4. P-channel Trench MOSFET: Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

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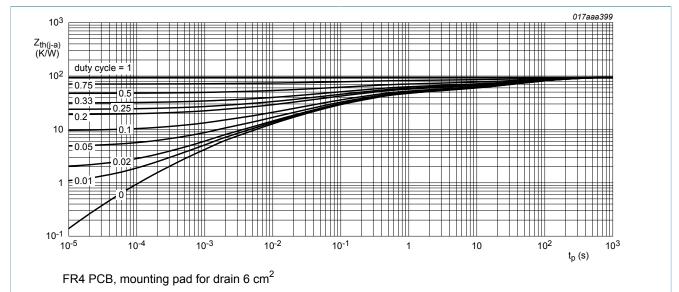


Fig. 5. P-channel Trench MOSFET: Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

10. Characteristics

Table 7. Characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
P-channel 1	Trench MOSFET; static cha	aracteristics	, , , , , , , , , , , , , , , , , , ,			
$V_{(BR)DSS}$	drain-source breakdown voltage	$I_D = -250 \mu A; V_{GS} = 0 V; T_j = 25 °C$	-30	-	-	V
V_{GSth}	gate-source threshold voltage	I_D = -250 mA; V_{DS} = V_{GS} ; T_j = 25 °C	-0.45	-0.78	-1	V
I _{DSS} drain leakage current	drain leakage current	$V_{DS} = -30 \text{ V}; V_{GS} = 0 \text{ V}; T_{amb} = 25 ^{\circ}\text{C}$	-	-	-1	μA
		V _{DS} = -30 V; V _{GS} = 0 V; T _{amb} = 150 °C	-	-	-11	μA
I _{GSS}	gate leakage current	V _{GS} = 12 V; V _{DS} = 0 V; T _j = 25 °C	-	-	100	nA
		V _{GS} = -12 V; V _{DS} = 0 V; T _j = 25 °C	-	-	100	nA
R _{DSon}	drain-source on-state	V_{GS} = -4.5 V; I_D = -2.6 A; T_j = 25 °C	-	85	110	mΩ
	resistance	V _{GS} = -4.5 V; I _D = -2.6 A; T _j = 150 °C	-	133	173	mΩ
		V_{GS} = -2.5 V; I_D = -1.5 A; T_j = 25 °C	-	105	140	mΩ
g _{fs}	transfer conductance	V_{DS} = -10 V; I_D = -2.6 A; T_j = 25 °C	-	10	-	S
P-channel 1	Trench MOSFET; dynamic	characteristics				
Q _{G(tot)}	total gate charge	V_{DS} = -15 V; I_{D} = -2.6 A; V_{GS} = -4.5 V;	-	5.2	7.8	nC
Q_{GS}	gate-source charge	T _j = 25 °C	-	1.1	-	nC
Q_{GD}	gate-drain charge		-	0.95	-	nC
C _{iss}	input capacitance	V _{DS} = -15 V; f = 1 MHz; V _{GS} = 0 V;	-	680	-	pF
C _{oss}	output capacitance	T _j = 25 °C	-	54	-	pF
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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
C _{rss}	reverse transfer capacitance		-	40	-	pF
t _{d(on)}	turn-on delay time	V_{DS} = -15 V; I_{D} = -2.6 A; $R_{G(ext)}$ = 6 Ω ;	-	3	-	ns
t _r	rise time	$V_{GS} = -4.5 \text{ V}; T_j = 25 \text{ °C}$	-	15	-	ns
$t_{d(off)}$	turn-off delay time		-	112	-	ns
t _f	fall time		-	48	-	ns
P-channel	Trench MOSFET; source-di	rain diode				
V_{SD}	source-drain voltage	I_S = -1.2 A; V_{GS} = 0 V; T_j = 25 °C	-	-0.8	-1.2	V
NPN RET	,		'			
I _{CBO}	collector-base cut-off current	$V_{CB} = 50 \text{ V}; I_{E} = 0 \text{ A}; T_{j} = 25 \text{ °C}$	-	-	100	nA
I _{CEO} collector-emitter c		$V_{CE} = 30 \text{ V}; I_B = 0 \text{ A}; T_j = 25 ^{\circ}\text{C}$	-	-	1	μA
	current	V _{CE} = 30 V; I _B = 0 A; T _j = 150 °C	-	-	50	μΑ
I _{EBO}	emitter-base cut-off current	$V_{EB} = 5 \text{ V}; I_C = 0 \text{ A}; T_j = 25 \text{ °C}$	-	-	170	μA
h _{FE}	DC current gain	V_{CE} = 5 V; I_{C} = 10 mA; T_{j} = 25 °C	100	-	-	
V _{CEsat}	collector-emitter saturation voltage	$I_C = 5 \text{ mA}; I_B = 0.25 \text{ mA}; T_j = 25 ^{\circ}\text{C}$	-	-	100	mV
$V_{I(off)}$	off-state input voltage	I_C = 100 μ A; V_{CE} = 5 V; T_j = 25 °C	-	0.6	0.5	V
V _{I(on)}	on-state input voltage	I_C = 5 mA; V_{CE} = 0.3 V; T_j = 25 °C	1.3	0.9	-	V
R1	bias resistor 1		3.3	4.7	6.1	kΩ
R2	bias resistor 2		-	47	-	kΩ
R2/R1	bias resistor ratio		8	10	12	
C _C	collector capacitance	$I_E = 0 \text{ A}; i_e = 0 \text{ A}; f = 1 \text{ MHz}; T_j = 25 °C;$ $V_{CB} = 10 \text{ V}$	-	-	2.5	pF

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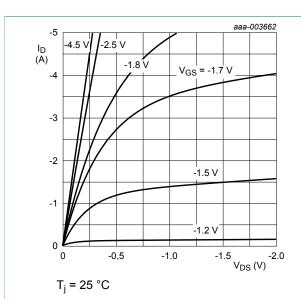
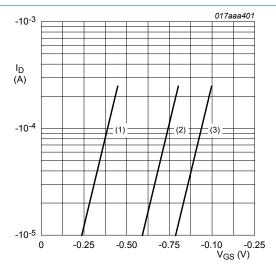


Fig. 6. Output characteristics: drain current as a function of drain-source voltage; typical values



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

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

Fig. 7. Subthreshold drain current as a function of gate-source voltage

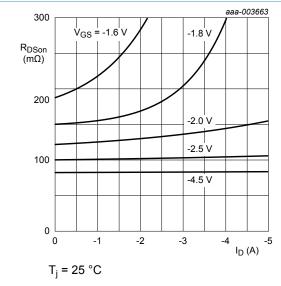


Fig. 8. Drain-source on-state resistance as a function of drain current; typical values

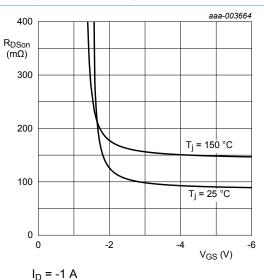


Fig. 9. Drain-source on-state resistance as a function of gate-source voltage; typical values

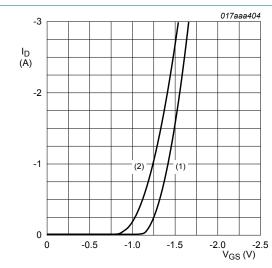
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 $V_{DS} > I_{D} \times R_{DSon}$

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

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

Fig. 10. Transfer characteristics: drain current as a function of gate-source voltage; typical values

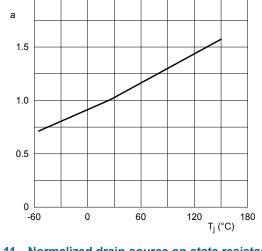
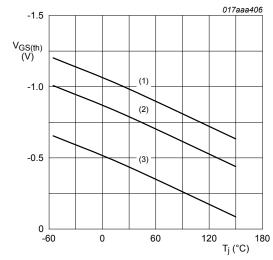


Fig. 11. Normalized drain-source on-state resistance as a function of junction temperature; typical values

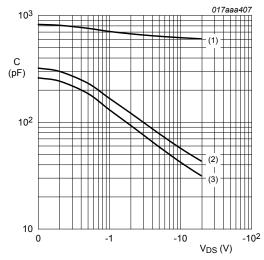
$$a = \frac{R_{DSon}}{R_{DSon(25^{\circ}C)}}$$



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

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

Fig. 12. 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}

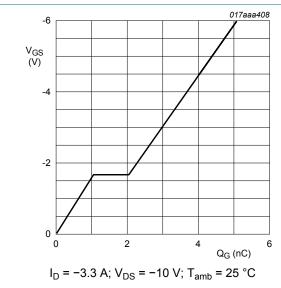
Fig. 13. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

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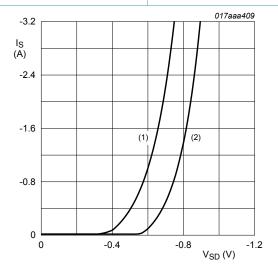
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V_{DS}
V_{GS(pl)}
V_{GS(th)}
V_{GS}
Q_{GS1} Q_{GS2}
Q_{GG(tot)}
017aaa137

Fig. 15. Gate charge waveform definitions

Fig. 14. Gate-source voltage as a function of gate charge; typical values



$$V_{GS} = 0 V$$

(1)
$$T_{amb}$$
 = 150 °C

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

Fig. 16. Source current as a function of source-drain voltage; typical values

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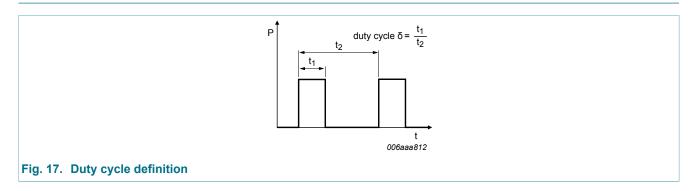
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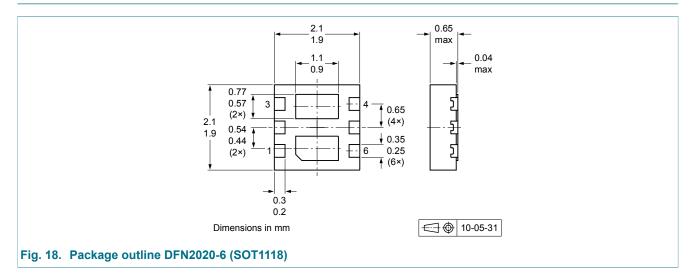
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11. Test information



12. Package outline



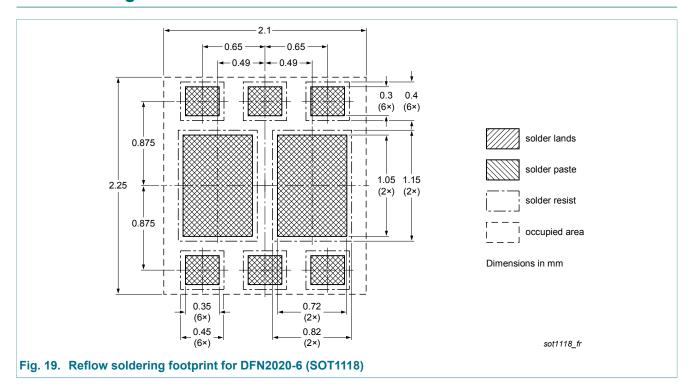


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13. Soldering



14. Revision history

Table 8. Revision history

Data sheet ID	Release date	Data sheet status	Change notice	Supersedes		
PMC85XP v.2	20130515	Product data sheet	-	PMC85XP v.1		
Modifications:	Pinning information: graphic symbol corrected					
PMC85XP v.1	20120524	Product data sheet	-	-		



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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.
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