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Kind regards,

Team Nexperia



PMFPB6545UP

20 V, 3.5 A / 440 mV V_F P-channel MOSFET-Schottky combination Rev. 2 — 4 June 2012 Product

Product data sheet

Product profile

1.1 General description

Small-signal P-channel enhancement mode Field-Effect Transistor (FET) using Trench MOSFET technology and ultra low V_F Maximum Efficiency General Application (MEGA) Schottky diode combined in a small and leadless ultra thin DFN2020-6 (SOT1118) Surface-Mounted Device (SMD) plastic package.

1.2 Features and benefits

- Trench MOSFET technology
- Integrated ultra low V_F MEGA Schottky diode
- 1 kV ElectroStatic Discharge (ESD) protection
- Small and leadless ultra thin SMD plastic package: 2 × 2 × 0.65 mm
- Exposed drain pad for excellent thermal conduction

1.3 Applications

- Charging switch for portable devices
- DC-to-DC converters
- Power management in battery-driven portables
- Hard disk and computing power management

1.4 Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
MOSFET	transistor					
V_{DS}	drain-source voltage	$T_{amb} = 25 ^{\circ}C$	-	-	-20	V
V_{GS}	gate-source voltage	T _{amb} = 25 °C	-	-	±8	V
I _D	drain current	T_{amb} = 25 °C; V_{GS} = -4.5 V	[1] -	-	-3.5	Α
R _{DSon}	drain-source on-state resistance	$T_j = 25 ^{\circ}\text{C};$ $V_{GS} = -4.5 \text{V};$ $I_D = -1 \text{A}$	<u>[2]</u> -	58	70	mΩ



Table 1. Quick reference data ...continued

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Schottky	diode					
l _F	forward current	T _{sp} ≤ 105 °C	-	-	2	Α
V_R	reverse voltage	T _{amb} = 25 °C	-	-	30	V
V _F	forward voltage	T _{amb} = 25 °C; I _F = 1 A	-	440	520	mV

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

2. Pinning information

Table 2. Pinning

	9			
Pin	Symbol	Description	Simplified outline	Graphic symbol
1	Α	anode		
2	n.c.	not connected	6 5 4	D A
3	D	drain		
4	S	source	7 8	$G \left(\begin{array}{c} \downarrow \\ \downarrow \\ \downarrow \end{array} \right) \begin{array}{c} \downarrow \\ \downarrow \\ \downarrow \end{array}$
5	G	gate		
6	K	cathode	1 2 3	11
7	K	cathode	Transparent top view	s K
8	D	drain		017aaa600

3. Ordering information

Table 3. Ordering information

Type number	Package	Package				
	Name	Description	Version			
PMFPB6545UP	DFN2020-6	plastic thermal enhanced ultra thin small outline package; no leads; 6 terminals; body $2\times2\times0.65$ mm	SOT1118			

4. Marking

Table 4. Marking codes

Type number	Marking code
PMFPB6545UP	1A

^[2] Pulse test: $t_p \le 300 \ \mu s; \ \delta \le 0.01.$

5. Limiting values

Table 5. Limiting values

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

Symbol	Parameter	Conditions	Min	Max	Unit
MOSFET	transistor				
V_{DS}	drain-source voltage	T _{amb} = 25 °C	-	-20	V
V_{GS}	gate-source voltage	T _{amb} = 25 °C	-	±8	V
I _D	drain current	$V_{GS} = -4.5 \text{ V}$	<u>[1]</u>		
		T _{amb} = 25 °C	-	-3.5	Α
		T _{amb} = 100 °C	-	-2.7	Α
I _{DM}	peak drain current	T_{amb} = 25 °C; single pulse; $t_p \le 10 \mu s$	-	-20	Α
P _{tot}	total power dissipation	T _{amb} = 25 °C	[2] _	520	mW
			[1] -	1.25	W
		T _{sp} = 25 °C	-	8.3	W
Source-di	rain diode				
Is	source current	T _{amb} = 25 °C	<u>[1]</u> -	-1.4	Α
ESD max	imum rating				
V_{ESD}	electrostatic discharge voltage	human body model; C = 100 pF; R = 1.5 k Ω	[3] -	1000	V
Schottky	diode				
V_R	reverse voltage	T _{amb} = 25 °C	-	30	V
l _F	forward current	T _{sp} ≤ 105 °C	-	2	Α
I _{FRM}	repetitive peak forward current	$\begin{array}{l} t_p \leq 1 \text{ ms; } \delta \leq 0.25; \\ T_{amb} = 25 ^{\circ}C \end{array}$	-	7	Α
I _{FSM}	non-repetitive peak	t _p = 8 ms; square wave	[4] _	18	Α
	forward current	t _p = 8 ms; half-sine wave	<u>[5]</u> _	25	Α
P _{tot}	total power dissipation	T _{amb} = 25 °C	[2] _	480	mW
			[1] -	1190	mW
		T _{sp} = 25 °C	-	8.3	W
Per devic	ce				
Tj	junction temperature		-	150	°C
T _{amb}	ambient temperature		-55	+150	°C
T _{stg}	storage temperature		-65	+150	°C

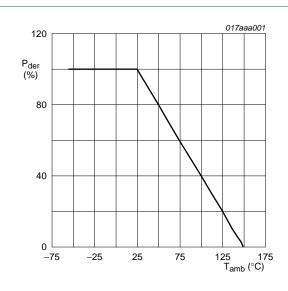
^[1] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for drain 6 cm².

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

^[3] Measured between all pins.

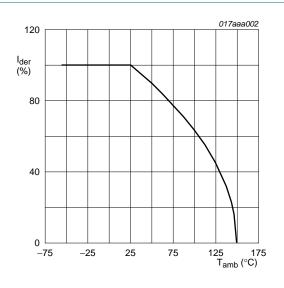
^[4] $T_i = 25$ °C prior to surge.

^[5] Calculated from square-wave measurements; $T_j = 25$ °C prior to surge.



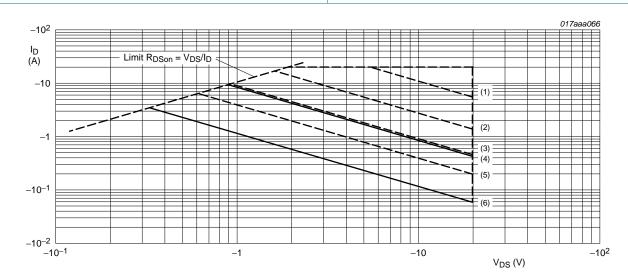
$$P_{der} = \frac{P_{tot}}{P_{tot(25^{\circ}C)}} \times 100 \%$$

Fig 1. MOSFET transistor: Normalized total power dissipation as a function of ambient temperature



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

Fig 2. MOSFET transistor: Normalized continuous drain current as a function of ambient temperature



I_{DM} = single pulse

- (1) $t_p = 100 \ \mu s$
- (2) $t_p = 1 \text{ ms}$
- (3) $t_p = 10 \text{ ms}$
- (4) DC; $T_{sp} = 25 \,^{\circ}C$
- (5) $t_p = 100 \text{ ms}$
- (6) DC; $T_{amb} = 25 \,^{\circ}\text{C}$; drain mounting pad 6 cm²

Fig 3. MOSFET transistor: Safe operating area; junction to ambient; continuous and peak drain currents as a function of drain-source voltage

PMFPB6545UP

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6. Thermal characteristics

Table 6. Thermal characteristics

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
MOSFET tra	ansistor					
R _{th(j-a)}	thermal resistance from	in free air	[1] -	-	240	K/W
	junction to ambient		[2] _	-	100	K/W
$R_{th(j-sp)}$	thermal resistance from junction to solder point		-	-	15	K/W
Schottky di	ode					
R _{th(j-a)}	thermal resistance from	in free air	[1]	-	260	K/W
	junction to ambient		[2] _	-	105	K/W
$R_{th(j-sp)}$	thermal resistance from junction to solder point		-	-	15	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, mounting pad for drain 6 cm².

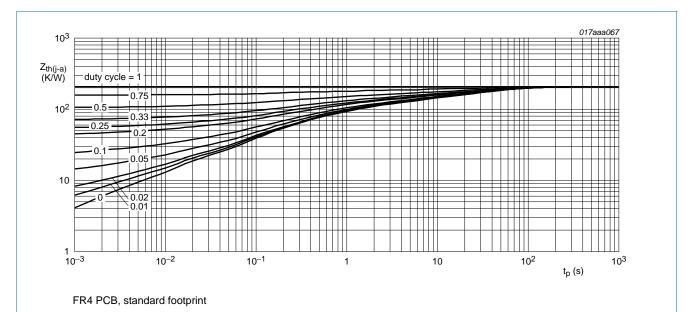
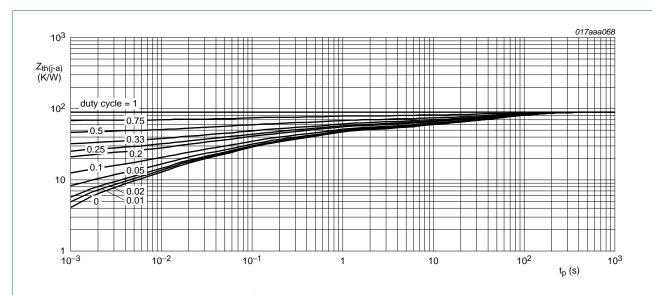
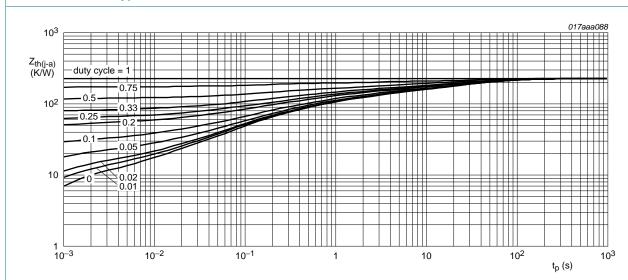


Fig 4. MOSFET transistor: Transient thermal impedance from junction to ambient as a function of pulse duration; typical values



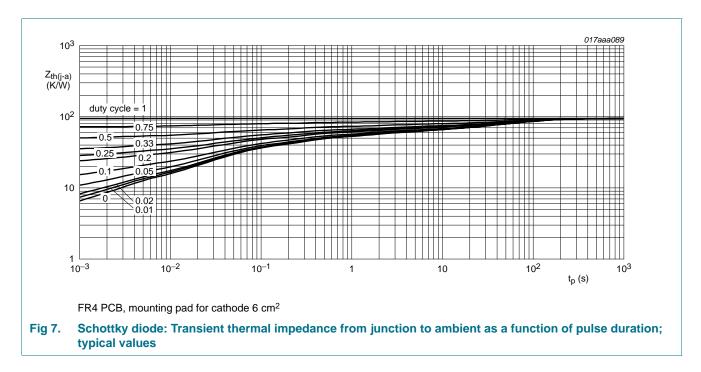
FR4 PCB, mounting pad for drain 6 cm²

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



FR4 PCB, standard footprint

Fig 6. Schottky diode: Transient thermal impedance from junction to ambient as a function of pulse duration; typical values



7. Characteristics

Table 7. Characteristics

 $T_i = 25$ °C unless otherwise specified.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
MOSFET t	ransistor					
Static char	acteristics					
$V_{(BR)DSS}$	drain-source breakdown voltage	$I_D = -250 \ \mu A; \ V_{GS} = 0 \ V$	-20	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	$I_D = -250 \ \mu A; \ V_{DS} = V_{GS}$	-0.4	-0.7	–1	V
I _{DSS}	drain leakage current	$V_{DS} = -16 \text{ V}; V_{GS} = 0 \text{ V}$				
		T _j = 25 °C	-	-	-1	μΑ
		T _j = 150 °C	-	-	-10	μΑ
I_{GSS}	gate leakage current	$V_{GS} = \pm 8 \text{ V}; V_{DS} = 0 \text{ V}$	-	1	±10	μΑ
R _{DSon}	drain-source on-state		<u>[1]</u>			
	resistance	$V_{GS} = -4.5 \text{ V}; I_D = -1 \text{ A}$	-	58	70	$m\Omega$
		$V_{GS} = -4.5 \text{ V}; I_D = -1 \text{ A};$ $T_j = 125 ^{\circ}\text{C}$	-	80	100	mΩ
		$V_{GS} = -2.5 \text{ V}; I_D = -1 \text{ A}$	-	72	90	$m\Omega$
		$V_{GS} = -1.8 \text{ V};$ $I_D = -0.5 \text{ A}$	-	100	165	mΩ
g _{fs}	forward transconductance	$V_{DS} = -5 \text{ V}; I_D = -1 \text{ A}$	[1] -	8	-	S

 Table 7.
 Characteristics ...continued

 $T_i = 25$ °C unless otherwise specified.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Dynamic o	characteristics					
Q _{G(tot)}	total gate charge	$I_D = -3.3 \text{ A};$	-	4.5	6	nC
Q _{GS}	gate-source charge	$V_{DS} = -10 \text{ V};$ $V_{GS} = -4.5 \text{ V}$	-	0.8	-	nC
Q_{GD}	gate-drain charge		-	1	-	nC
C _{iss}	input capacitance	$V_{GS} = 0 \text{ V}; V_{DS} = -10 \text{ V};$ f = 1 MHz	-	380	-	pF
Coss	output capacitance		-	72	-	pF
C _{rss}	reverse transfer capacitance		-	61	-	pF
t _{d(on)}	turn-on delay time	$V_{DS} = -15 \text{ V}; R_L = 15 \Omega;$ $V_{GS} = -10 \text{ V}; R_G = 6 \Omega$	-	5	-	ns
t _r	rise time		-	10	-	ns
t _{d(off)}	turn-off delay time		-	57	-	ns
t _f	fall time		-	35	-	ns
Source-dr	ain diode					
V_{SD}	source-drain voltage	$I_S = -1.3 \text{ A}; V_{GS} = 0 \text{ V}$	-	-0.75	-1	V
Schottky	diode					
V _F	forward voltage	I _F = 100 mA	-	330	390	mV
		$I_F = 500 \text{ mA}$	-	400	460	mV
		I _F = 1 A	-	440	520	mV
I _R	reverse current	V _R = 5 V	-	1	3.5	μΑ
		$V_R = 5 \text{ V}; T_j = 125 ^{\circ}\text{C}$	-	0.33	1.2	mΑ
		V _R = 10 V	-	1.5	5	μΑ
		V _R = 20 V	-	4	15	μΑ
		$V_{R} = 30 \text{ V}$	-	8	30	μΑ
C _d	diode capacitance	$V_R = 5 V; f = 1 MHz$	-	45	55	рF

^[1] Pulse test: $t_p \le 300~\mu s;~\delta \le 0.01.$

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

20 V, 3.5 A / 440 mV V_F P-channel MOSFET-Schottky combination

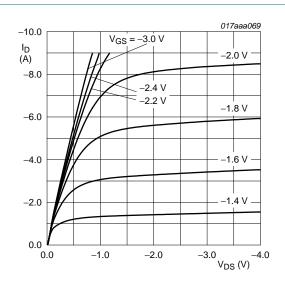
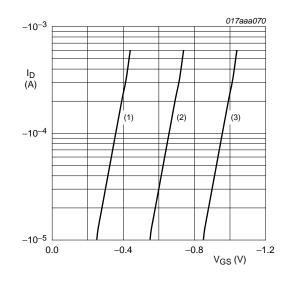


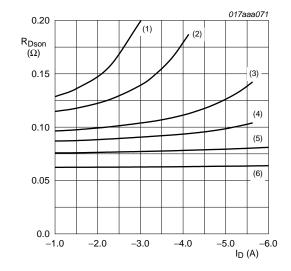
Fig 8. MOSFET transistor: Output characteristics: drain current as a function of drain-source voltage; typical values



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

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





(1)
$$V_{GS} = -1.5 \text{ V}$$

(2)
$$V_{GS} = -1.6 \text{ V}$$

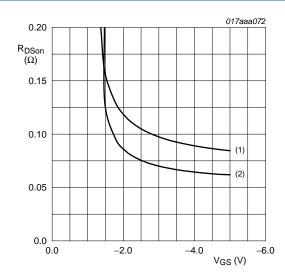
(3)
$$V_{GS} = -1.8 \text{ V}$$

(4)
$$V_{GS} = -2 V$$

(5)
$$V_{GS} = -2.5 \text{ V}$$

(6)
$$V_{GS} = -4.5 \text{ V}$$

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



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

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

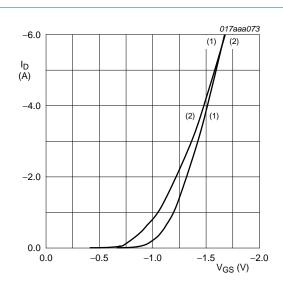
(2)
$$T_{amb} = 25 \, ^{\circ}C$$

Fig 11. MOSFET transistor: Drain-source on-state resistance as a function of gate-source voltage; typical values

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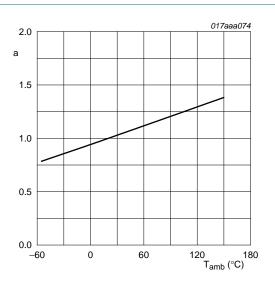


 $V_{DS} > I_D \times R_{DSon}$

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

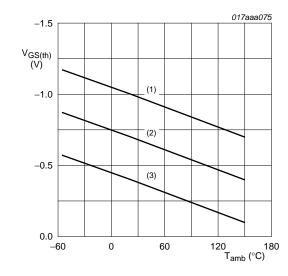
(2) $T_{amb} = 150 \, ^{\circ}C$

Fig 12. MOSFET transistor: Transfer characteristics: drain current as a function of gate-source voltage; typical values



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

Fig 13. MOSFET transistor: Normalized drain-source on-state resistance as a function of ambient temperature; typical values



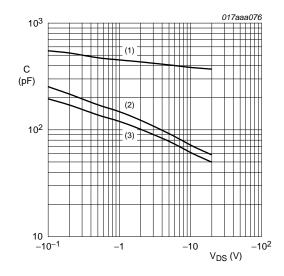
 $I_D = -0.25 \text{ mA}; V_{DS} = V_{GS}$

(1) maximum values

(2) typical values

(3) minimum values

Fig 14. MOSFET transistor: Gate-source threshold voltage as a function of ambient temperature



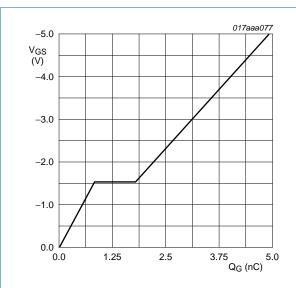
 $f = 1 \text{ MHz}; V_{GS} = 0 \text{ V}$

(1) C_{iss}

(2) Coss

(3) C_{rss}

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



 I_D = -3.3 A; V_{DS} = -10 V; T_{amb} = 25 °C

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

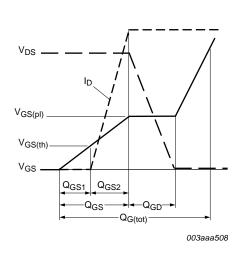
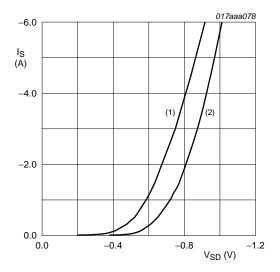


Fig 17. MOSFET transistor: Gate charge waveform definitions

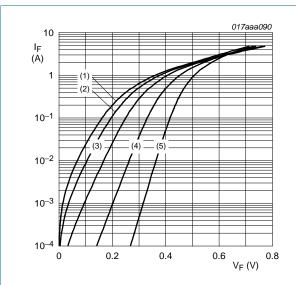


 $V_{GS} = 0 V$

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

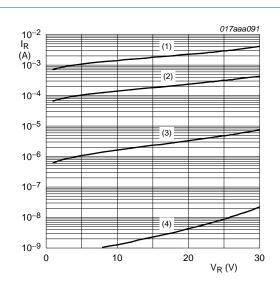
(2) $T_{amb} = 25 \,^{\circ}C$

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



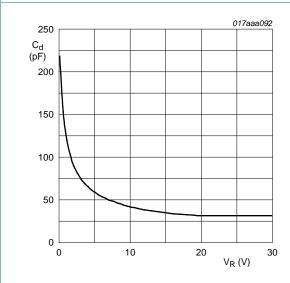
- (1) $T_i = 150 \, ^{\circ}C$
- (2) $T_i = 125 \, ^{\circ}C$
- (3) $T_j = 85 \, ^{\circ}C$
- (4) $T_j = 25 \,{}^{\circ}\text{C}$
- (5) $T_i = -40 \, ^{\circ}\text{C}$

Fig 19. Schottky diode: Forward current as a function of forward voltage; typical values

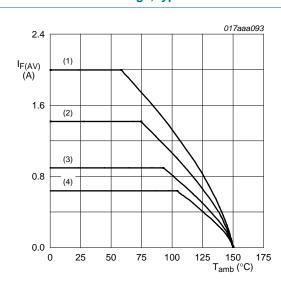


- (1) $T_i = 125 \,^{\circ}\text{C}$
- (2) $T_i = 85 \, ^{\circ}C$
- (3) $T_j = 25 \,^{\circ}C$
- (4) $T_j = -40 \, ^{\circ}C$

Fig 20. Schottky diode: Reverse current as a function of reverse voltage; typical values



f = 1 MHz; T_{amb} = 25 °C



FR4 PCB, mounting pad for cathode 6 cm²

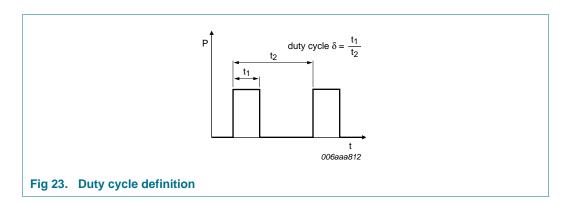
T_i = 150 °C

- (1) $\delta = 1$; DC
- (2) $\delta = 0.5$; f = 20 kHz
- (3) $\delta = 0.2$; f = 20 kHz
- (4) $\delta = 0.1$; f = 20 kHz

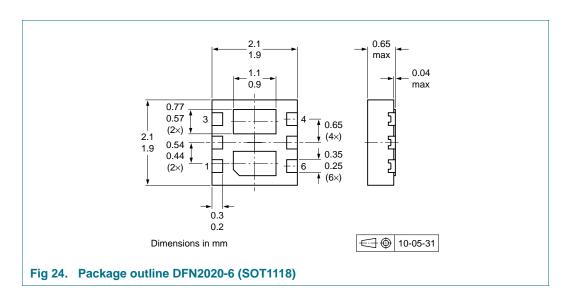
Fig 22. Schottky diode: Average forward current as a function of ambient temperature; typical values

Fig 21. Schottky diode: Diode capacitance as a function of reverse voltage; typical values

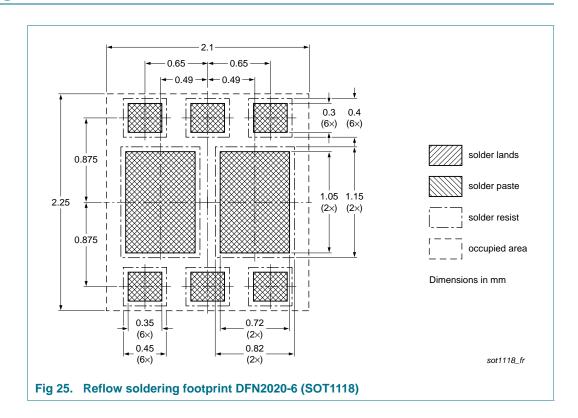
8. Test information



9. Package outline



10. Soldering





11. Revision history

Table 8. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
PMFPB6545UP v.2	20120604	Product data sheet	-	PMFPB6545UP v.1	
Modifications:	 <u>Section 1.1 "General description"</u>: updated <u>Table 2 "Pinning"</u>: graphic symbol drawing updated <u>Figure 24</u>: replaced with minimized package outline drawing 				
PMFPB6545UP v.1	20110308	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 URL http://www.nxp.com.

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20 V, 3.5 A / 440 mV V_F P-channel MOSFET-Schottky combination

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