BSS84AKMB



Product data sheet

1. Product profile

1.1 General description

P-channel enhancement mode Field-Effect Transistor (FET) in a leadless ultra small DFN1006B-3 (SOT883B) Surface-Mounted Device (SMD) plastic package using Trench MOSFET technology.

1.2 Features and benefits

- Logic-level compatible
- Very fast switching
- Trench MOSFET technology
- ElectroStatic Discharge (ESD) protection up to 1 kV
- Ultra thin package profile with 0.37 mm height

1.3 Applications

- Relay driver
- High-speed line driver

- High-side load switch
- Switching circuits

1.4 Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
V_{DS}	drain-source voltage	$T_j = 25 ^{\circ}C$		-	-	-50	V
V_{GS}	gate-source voltage			-20	-	20	V
I _D	drain current	V _{GS} = -10 V; T _{amb} = 25 °C	<u>[1]</u>	-	-	-230	mA
Static characte	eristics						
R _{DSon}	drain-source on-state resistance	$V_{GS} = -10 \text{ V}; I_D = -100 \text{ mA}; T_j = 25 \text{ °C}$		-	4.5	7.5	Ω

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



2. Pinning information

Table 2. Pinning information

	_			
Pin	Symbol	Description	Simplified outline	Graphic symbol
1	G	gate		
2	S	source	1	D
3	D	drain	Transparent top view SOT883B (DFN1006B-3)	G S 017aaa259

3. Ordering information

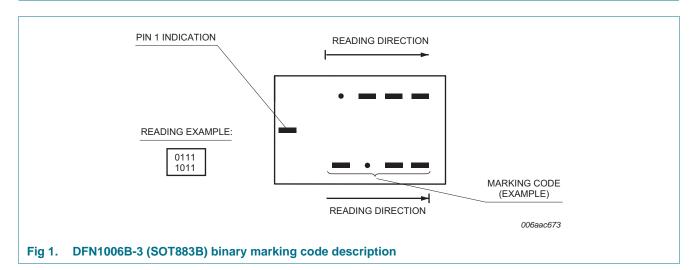
Table 3. Ordering information

Type number	Package					
	Name	Description	Version			
BSS84AKMB	DFN1006B-3	Leadless ultra small plastic package; 3 solder lands; body $1.0 \times 0.6 \times 0.37$ mm	SOT883B			

4. Marking

Table 4. Marking codes

Type number	Marking code
BSS84AKMB	0000 0010



5. Limiting values

Table 5. Limiting values

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

Parameter	Conditions		Min	Max	Unit
drain-source voltage	T _j = 25 °C		-	-50	V
gate-source voltage			-20	20	V
drain current	$V_{GS} = -10 \text{ V}; T_{amb} = 25 ^{\circ}\text{C}$	<u>[1]</u>	-	-230	mA
	V _{GS} = -10 V; T _{amb} = 100 °C	<u>[1]</u>	-	-150	mA
peak drain current	T_{amb} = 25 °C; single pulse; $t_p \le 10 \mu s$		-	-0.9	Α
total power dissipation	T _{amb} = 25 °C	[2]	-	360	mW
		[1]	-	715	mW
	T _{sp} = 25 °C		-	2700	mW
junction temperature			-55	150	°C
ambient temperature			-55	150	°C
storage temperature			-65	150	°C
diode					
source current	T _{amb} = 25 °C	<u>[1]</u>	-	-230	mA
n rating					
electrostatic discharge voltage	НВМ	[3]	-	1000	V
	drain-source voltage gate-source voltage drain current peak drain current total power dissipation junction temperature ambient temperature storage temperature diode source current rating	$ \begin{array}{lll} drain\text{-source voltage} & T_j = 25 \ ^{\circ}\text{C} \\ gate\text{-source voltage} \\ drain current & V_{GS} = -10 \ \text{V}; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline V_{GS} = -10 \ \text{V}; \ T_{amb} = 100 \ ^{\circ}\text{C} \\ \hline Peak drain current & T_{amb} = 25 \ ^{\circ}\text{C}; single pulse; } t_p \leq 10 \ \mu s \\ \hline total power dissipation & T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline T_{sp} = 25 \ ^{\circ}\text{C} \\ \hline junction temperature \\ ambient temperature \\ storage temperature \\ \hline storage temperature \\ \hline source current & T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline rating \\ \hline \end{array} $	$ \begin{array}{c} drain\text{-source voltage} \\ gate\text{-source voltage} \\ drain current \\ \hline \\ V_{GS} = -10 \text{ V}; T_{amb} = 25 \text{ °C} \\ \hline \\ V_{GS} = -10 \text{ V}; T_{amb} = 100 \text{ °C} \\ \hline \\ 11 \\ \hline \\ peak drain current \\ \hline \\ total power dissipation \\ \hline \\ T_{amb} = 25 \text{ °C}; single pulse; t_p \leq 10 \mu s \\ \hline \\ total power dissipation \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ 11 \\ \hline \\ T_{sp} = 25 \text{ °C} \\ \hline \\ junction temperature \\ \\ ambient temperature \\ \\ storage temperature \\ \hline \\ storage temperature \\ \hline \\ source current \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ \hline \\ 11 \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ \hline \\ 11 \\ \hline \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ $	$ \begin{array}{c} drain\text{-source voltage} \\ gate\text{-source voltage} \\ \\ drain current \\ \\ \hline Peak drain current \\ \\ \hline Peak drain current \\ \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; single pulse; t_{p} \leq 10 \mus \\ \hline T_{amb} = 25 ^{\circ}\text{C}; si$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

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

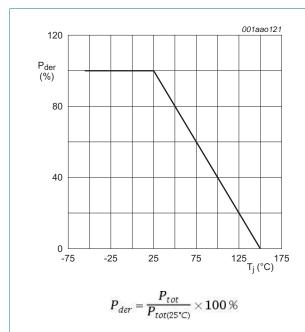


Fig 2. Normalized total power dissipation as a function of junction temperature

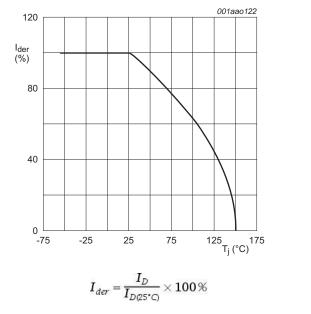
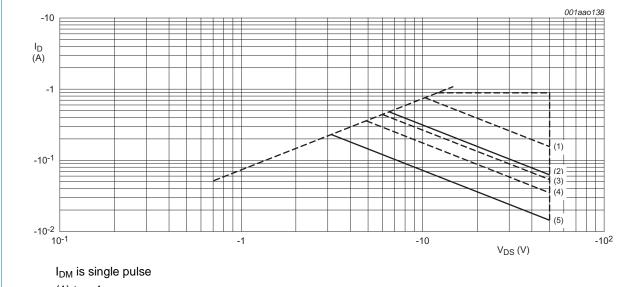


Fig 3. Normalized continuous drain current as a function of junction temperature



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

Fig 4. Safe operating area; junction to ambient; continuous and peak drain currents as a function of drain-source voltage

6. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
$R_{th(j-a)}$	thermal resistance	in free air [1]	<u>[1]</u>	-	305	350	K/W
	from junction to ambient		[2]	-	150	175	K/W
R _{th(j-sp)}	thermal resistance from junction to solder point			-	-	40	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 1 cm².

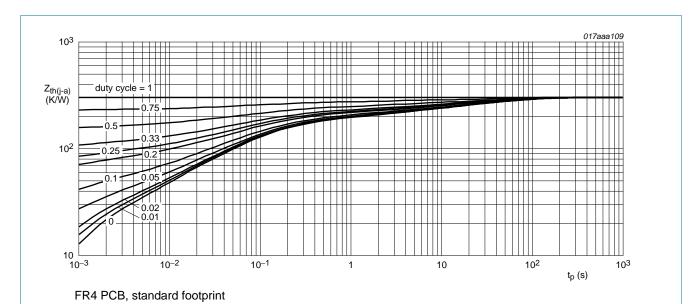


Fig 5. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

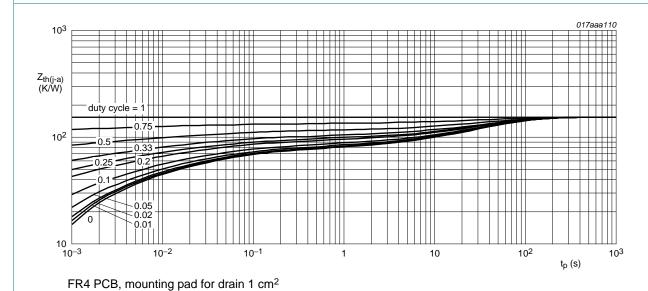


Fig 6. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

7. Characteristics

Table 7. Characteristics

Table 1.	Characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Static cha	racteristics					
$V_{(BR)DSS}$	drain-source breakdown voltage	$I_D = -250 \mu A; V_{GS} = 0 V; T_j = 25 °C$	-50	-	-	V
V_{GSth}	gate-source threshold voltage	$I_D = -250 \ \mu A; \ V_{DS} = V_{GS}; \ T_j = 25 \ ^{\circ}C$	-1.1	-1.6	-2.1	V
I _{DSS}	drain leakage current	$V_{DS} = -50 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	-1	μΑ
		$V_{DS} = -50 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 150 \text{ °C}$	-	-	-2	μΑ
I _{GSS}	gate leakage current	$V_{GS} = -20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	-	-10	μΑ
		V _{GS} = 20 V; V _{DS} = 0 V; T _j = 25 °C	-	-	-10	μΑ
R _{DSon}	drain-source on-state	$V_{GS} = -10 \text{ V}; I_D = -100 \text{ mA}; T_j = 25 \text{ °C}$	-	4.5	7.5	Ω
	resistance	$V_{GS} = -10 \text{ V}; I_D = -100 \text{ mA}; T_j = 150 \text{ °C}$	-	8	13.5	Ω
		$V_{GS} = -5 \text{ V}; I_D = -100 \text{ mA}; T_j = 25 \text{ °C}$	-	5.7	8.5	Ω
9 _{fs}	forward transconductance	$V_{DS} = -10 \text{ V}; I_D = -100 \text{ mA}; T_j = 25 \text{ °C}$	-	150	-	mS
Dynamic	characteristics					
Q _{G(tot)}	total gate charge	$V_{DS} = -25 \text{ V}; I_D = -200 \text{ mA}; V_{GS} = -5 \text{ V};$	-	0.26	0.35	nC
Q_{GS}	gate-source charge	T _j = 25 °C	-	0.12	-	nC
Q_GD	gate-drain charge	V_{DS} = -10 V; I_{D} = -200 mA; V_{GS} = -5 V; T_{j} = 25 °C	-	0.09	-	nC
C _{iss}	input capacitance	$V_{DS} = -25 \text{ V}; f = 1 \text{ MHz}; V_{GS} = 0 \text{ V};$	-	24	36	pF
Coss	output capacitance	T _j = 25 °C	-	4.5	-	pF
C _{rss}	reverse transfer capacitance		-	1.3	-	pF
t _{d(on)}	turn-on delay time	V_{DS} = -30 V; R_L = 250 Ω ; V_{GS} = -10 V;	-	13	26	ns
t _r	rise time	$R_{G(ext)} = 6 \Omega; T_j = 25 °C$	-	11	-	ns
t _{d(off)}	turn-off delay time		-	48	96	ns
t _f	fall time		-	25	-	ns
Source-di	rain diode					
V_{SD}	source-drain voltage	$I_S = -115 \text{ mA}; V_{GS} = 0 \text{ V}; T_i = 25 \text{ °C}$	-0.48	-0.85	-1.2	V

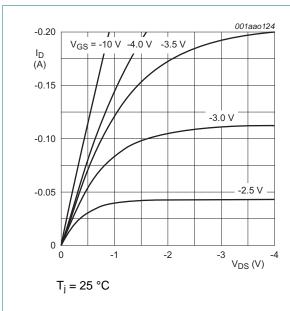
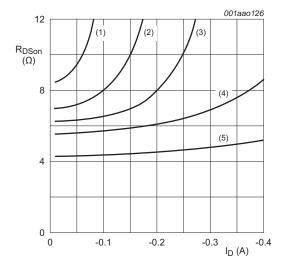


Fig 7. Output characteristics; drain current as a function of drain-source voltage; typical values



 $T_j = 25 \, ^{\circ}C$

(1) $V_{GS} = -3.0 \text{ V}$

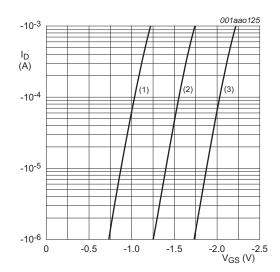
(2) $V_{GS} = -3.5 \text{ V}$

(3) $V_{GS} = -4.0 \text{ V}$

(4) $V_{GS} = -5.0 \text{ V}$

(5) $V_{GS} = -10.0 \text{ V}$

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



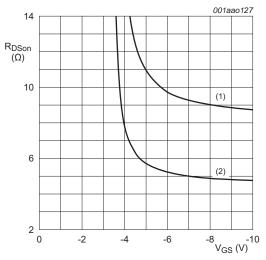
 $T_i = 25 \,^{\circ}C; \, V_{DS} = -5 \,^{\circ}V$

(1) minimum values

(2) typical values

(3) maximum values

Fig 8. Subthreshold drain current as a function of gate-source voltage

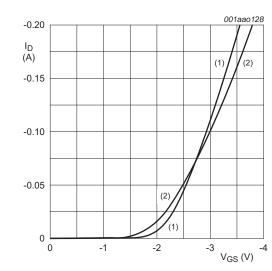


 $I_D = -200 \text{ mA}$

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

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

Fig 10. Drain-source on-state resistance as a function of gate-source voltage; typical values

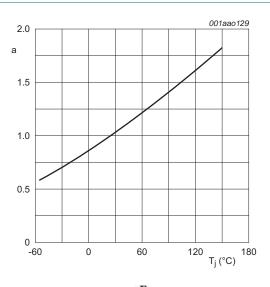


 $V_{DS} > I_D \times R_{DSon}$

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

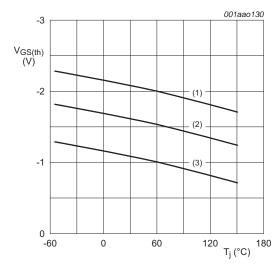
(2)
$$T_i = 150 \, ^{\circ}\text{C}$$

Fig 11. Transfer characteristics: drain current as a function of gate-source voltage; typical values



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

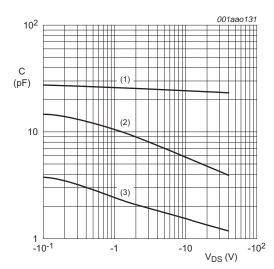
Fig 12. Normalized drain-source on-state resistance as a function of junction temperature; typical values



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

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

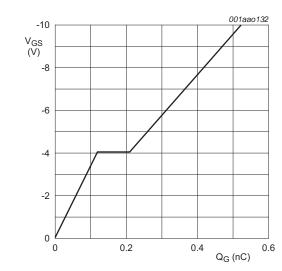
Fig 13. Gate-source threshold voltage as a function of junction temperature



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

- (1) C_{iss}
- (2) C_{oss}
- (3) C_{rss}

Fig 14. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values



 I_D = -0.2 A; V_{DS} = -25 V; T_{amb} = 25 °C

Fig 15. Gate-source voltage as a function of gate charge; typical values

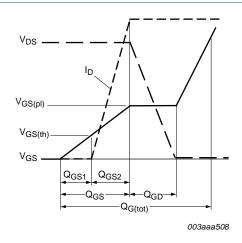
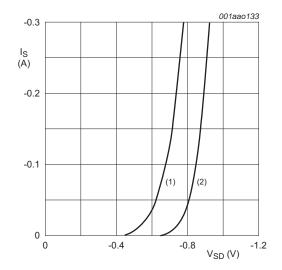


Fig 16. Gate charge waveform definitions



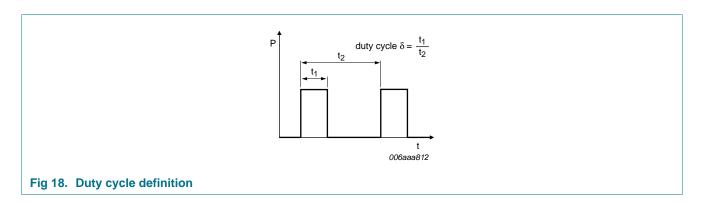
 $V_{GS} = 0 V$

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

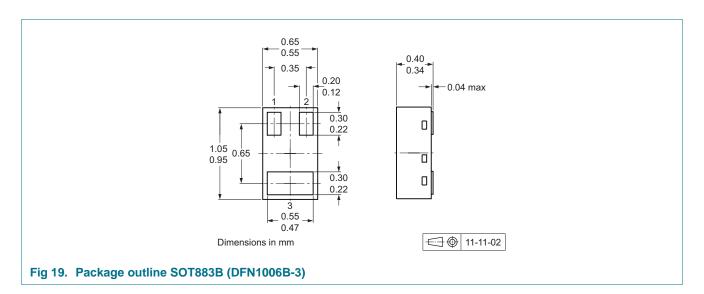
(2) $T_j = 25 \, ^{\circ}C$

Fig 17. Source current as a function of source-drain voltage; typical values

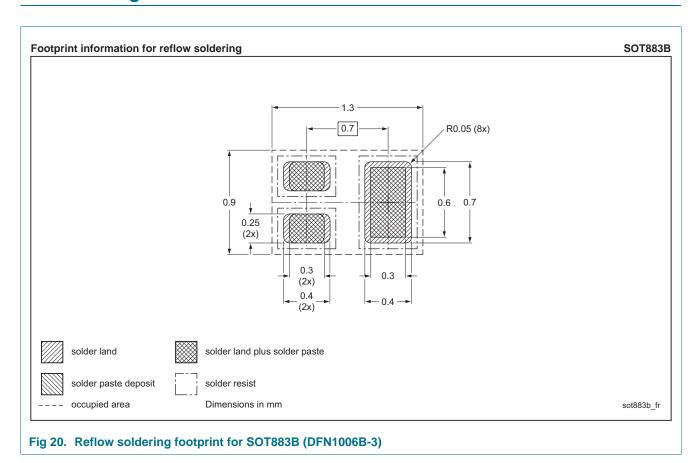
8. Test information



9. Package outline



10. Soldering





11. Revision history

Table 8. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BSS84AKMB v.1	20120606	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.

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- [2] The term 'short data sheet' is explained in section "Definitions"
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BSS84AKMB

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NXP Semiconductors

BSS84AKMB

50 V, single P-channel Trench MOSFET

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13. Contact information

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BSS84AKMB

50 V, single P-channel Trench MOSFET

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