BSS84AKMB

50 V, single P-channel Trench MOSFET Rev. 1 — 6 June 2012

Product data sheet

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

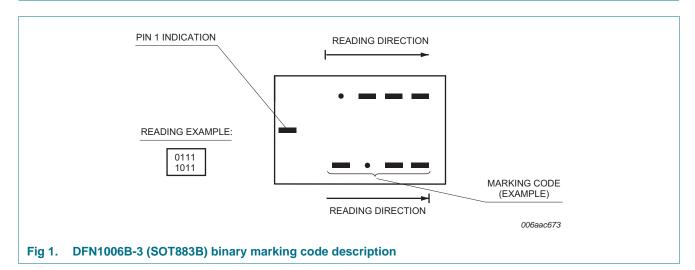
Table 3. Ordering information

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 \ ^{\circ}\text{V}; \ T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline V_{GS} = -10 \ ^{\circ}\text{V}; \ T_{amb} = 100 \ ^{\circ}\text{C} \\ \end{array} $ $ \begin{array}{ll} peak \ drain \ current & T_{amb} = 25 \ ^{\circ}\text{C}; \ single \ pulse; \ t_p \leq 10 \ \mu s \\ \hline T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline T_{sp} = 25 \ ^{\circ}\text{C} \\ \hline punction \ temperature \\ ambient \ temperature \\ storage \ temperature \\ \hline storage \ temperature \\ \hline source \ current & T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline T_{amb} = 25 \ ^{\circ}C$	$ \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.

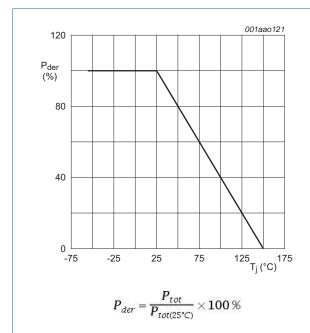


Fig 2. Normalized total power dissipation as a function of junction temperature

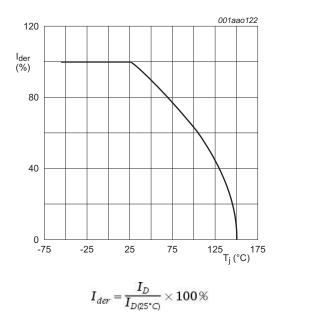
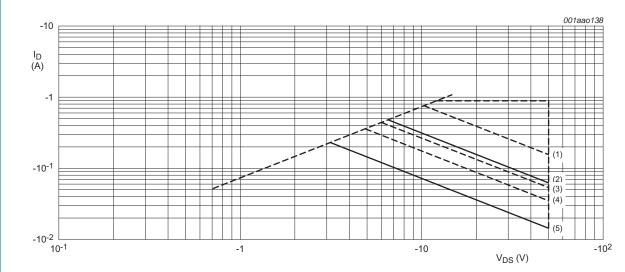


Fig 3. Normalized continuous drain current as a function of junction temperature



I_{DM} is single pulse

- (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		<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.

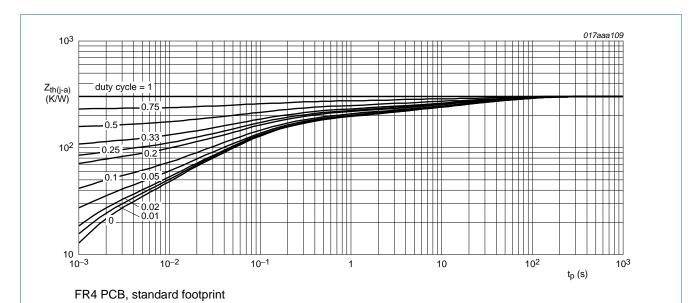


Fig 5. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

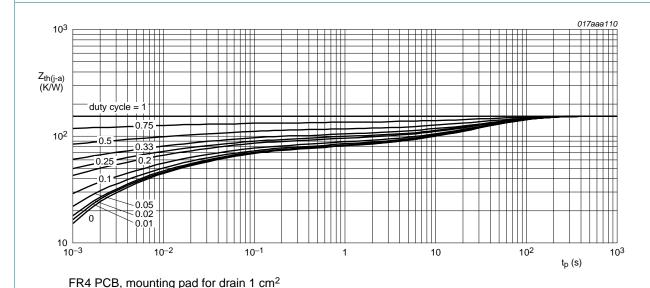


Fig 6. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

7. Characteristics

Table 7. Characteristics

Table 1.	Characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Static cha	aracteristics					
$V_{(BR)DSS}$	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
		$V_{DS} = -50 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 150 ^{\circ}\text{C}$	-	-	-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
g _{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 V; I_{D} = -200 mA; V_{GS} = -5 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	$T_j = 25 ^{\circ}\text{C}$	-	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-d	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

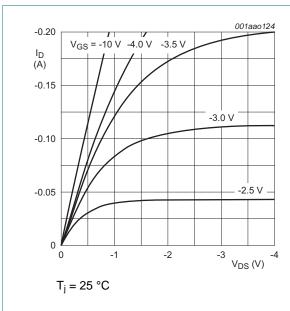
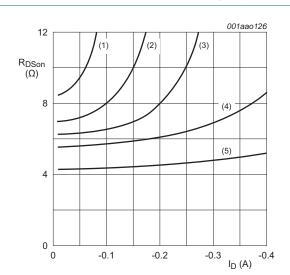


Fig 7. Output characteristics; drain current as a function of drain-source voltage; typical values



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

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

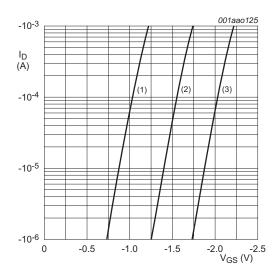
(2) $V_{GS} = -3.5 \text{ V}$

(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



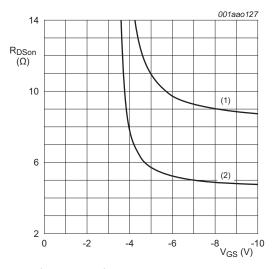
 $T_i = 25 \, ^{\circ}C; \, V_{DS} = -5 \, V$

(1) minimum values

(2) typical values

(3) maximum values

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

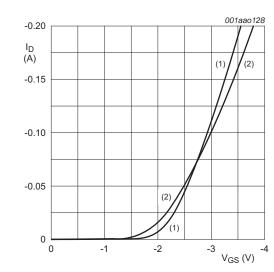


 $I_D = -200 \text{ mA}$

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

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

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

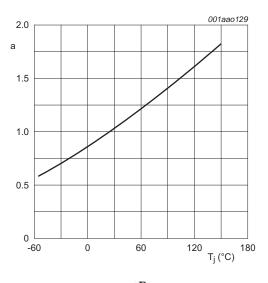


 $V_{DS} > I_D \times R_{DSon}$

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

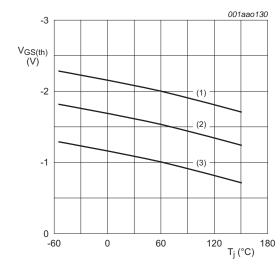
(2)
$$T_i = 150 \, ^{\circ}\text{C}$$

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



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

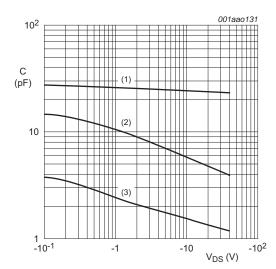
Fig 12. Normalized drain-source on-state resistance as a function of junction temperature; typical values



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

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

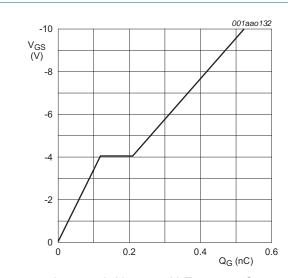
Fig 13. Gate-source threshold voltage as a function of junction temperature



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

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

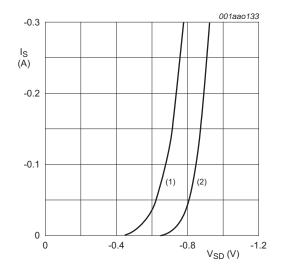
Fig 14. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values



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

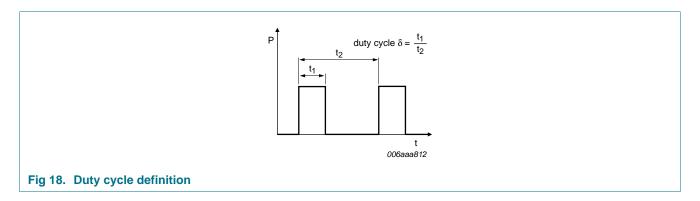
(2) $T_j = 25 \, ^{\circ}C$

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

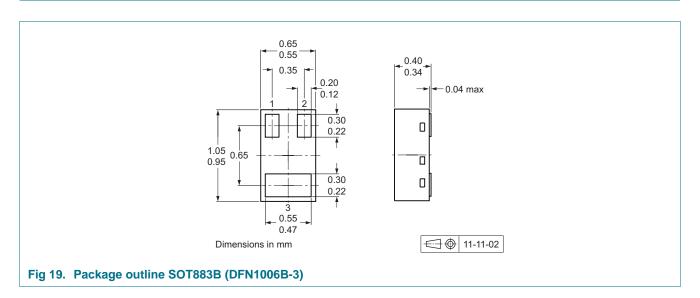
BSS84AKMB

50 V, single P-channel Trench MOSFET

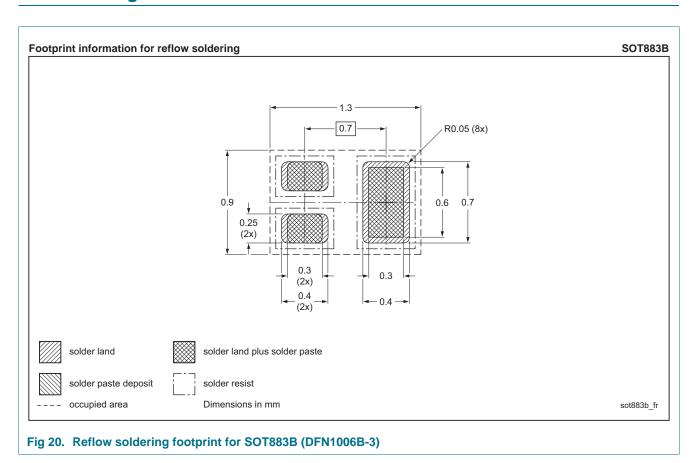
8. Test information



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.

- [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 URLhttp://www.nxp.com.

12.2 Definitions

Preview — The document is a preview version only. The document is still subject to formal approval, which may result in modifications or additions. NXP Semiconductors does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

Draft — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. NXP Semiconductors does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

Short data sheet — A short data sheet is an extract from a full data sheet with the same product type number(s) and title. A short data sheet is intended for quick reference only and should not be relied upon to contain detailed and full information. For detailed and full information see the relevant full data sheet, which is available on request via the local NXP Semiconductors sales office. In case of any inconsistency or conflict with the short data sheet, the full data sheet shall prevail.

Product specification — The information and data provided in a Product data sheet shall define the specification of the product as agreed between NXP Semiconductors and its customer, unless NXP Semiconductors and customer have explicitly agreed otherwise in writing. In no event however, shall an agreement be valid in which the NXP Semiconductors product is deemed to offer functions and qualities beyond those described in the Product data sheet

12.3 Disclaimers

Limited warranty and liability — Information in this document is believed to be accurate and reliable. However, NXP Semiconductors does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. NXP Semiconductors takes no responsibility for the content in this document if provided by an information source outside of NXP Semiconductors.

In no event shall NXP Semiconductors be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, NXP Semiconductors' aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the *Terms and conditions of commercial sale* of NXP Semiconductors.

Right to make changes — NXP Semiconductors reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

Suitability for use — NXP Semiconductors products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of an NXP Semiconductors product can reasonably be expected to result in personal injury, death or severe property or environmental damage. NXP Semiconductors and its suppliers accept no liability for inclusion and/or use of NXP Semiconductors products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Quick reference data — The Quick reference data is an extract of the product data given in the Limiting values and Characteristics sections of this document, and as such is not complete, exhaustive or legally binding.

Applications — Applications that are described herein for any of these products are for illustrative purposes only. NXP Semiconductors makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using NXP Semiconductors products, and NXP Semiconductors accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the NXP Semiconductors product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

NXP Semiconductors does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using NXP Semiconductors products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). NXP does not accept any liability in this respect.

Limiting values — Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

BSS84AKMB

All information provided in this document is subject to legal disclaimers.

© NXP B.V. 2012. All rights reserved.

NXP Semiconductors

BSS84AKMB

50 V, single P-channel Trench MOSFET

Terms and conditions of commercial sale — NXP Semiconductors products are sold subject to the general terms and conditions of commercial sale, as published athttp://www.nxp.com/profile/terms, unless otherwise agreed in a valid written individual agreement. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. NXP Semiconductors hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of NXP Semiconductors products by customer.

No offer to sell or license — Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

Export control — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

Non-automotive qualified products — Unless this data sheet expressly states that this specific NXP Semiconductors product is automotive qualified, the product is not suitable for automotive use. It is neither qualified nor tested in accordance with automotive testing or application requirements. NXP Semiconductors accepts no liability for inclusion and/or use of non-automotive qualified products in automotive equipment or applications.

In the event that customer uses the product for design-in and use in automotive applications to automotive specifications and standards, customer (a) shall use the product without NXP Semiconductors' warranty of the

product for such automotive applications, use and specifications, and (b) whenever customer uses the product for automotive applications beyond NXP Semiconductors' specifications such use shall be solely at customer's own risk, and (c) customer fully indemnifies NXP Semiconductors for any liability, damages or failed product claims resulting from customer design and use of the product for automotive applications beyond NXP Semiconductors' standard warranty and NXP Semiconductors' product specifications.

Translations — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

12.4 Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

Adelante,Bitport,Bitsound,CoolFlux,CoReUse,DESFire,EZ-HV,FabKey,GreenChip,HiPerSmart,HITAG,I²C-bus

logo,ICODE,I-CODE,ITEC,Labelution,MIFARE,MIFARE Plus,MIFARE Ultralight,MoReUse,QLPAK,Silicon

Tuner, SiliconMAX, SmartXA, STARplug, TOPFET, TrenchMOS, TriMedia and UCODE — are trademarks of NXP B.V.

HD Radio and**HD Radio** logo — are trademarks of iBiquity Digital Corporation.

13. Contact information

For more information, please visit:http://www.nxp.com

For sales office addresses, please send an email to:salesaddresses@nxp.com

BSS84AKMB

50 V, single P-channel Trench MOSFET

14. Contents

1	Product profile
1.1	General description
1.2	Features and benefits1
1.3	Applications1
1.4	Quick reference data1
2	Pinning information2
3	Ordering information2
4	Marking
5	Limiting values3
6	Thermal characteristics4
7	Characteristics6
8	Test information10
9	Package outline10
10	Soldering11
11	Revision history12
12	Legal information13
12.1	Data sheet status
12.2	Definitions13
12.3	Disclaimers
12.4	Trademarks14
13	Contact information 14

Please be aware that important notices concerning this document and the product(s) described herein, have been included in section 'Legal information'.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина,

дом 2, корпус 4, литера А.