

Important notice

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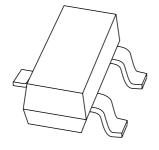
If you have any questions related to the data sheet, please contact our nearest sales office via e-mail or telephone (details via **salesaddresses@nexperia.com**). Thank you for your cooperation and understanding,

Kind regards,

Team Nexperia

DISCRETE SEMICONDUCTORS

DATA SHEET



BSS63PNP high-voltage transistor

Product data sheet Supersedes data of 1999 Apr 15 2004 Jan 16



NXP Semiconductors Product data sheet

PNP high-voltage transistor

BSS63

FEATURES

- Low current (max. 100 mA)
- High voltage (max. 100 V).

APPLICATIONS

- High-voltage general purpose
- Switching applications.

DESCRIPTION

PNP high-voltage transistor in a SOT23 plastic package. NPN complement: BSS64.

MARKING

TYPE NUMBER	MARKING CODE ⁽¹⁾	
BSS63	BM*	

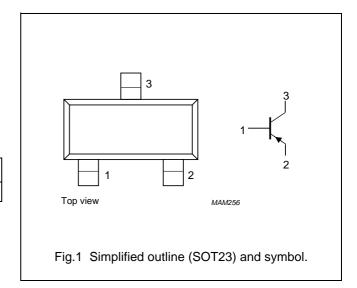
Note

1. * = p: Made in Hong Kong.

* = t : Made in Malaysia.* = W : Made in China.

PINNING

PIN	DESCRIPTION
1	base
2	emitter
3	collector



ORDERING INFORMATION

TYPE NUMBER	PACKAGE			
ITPE NUMBER	NAME DESCRIPTION VERSION			
BSS63	_	plastic surface mounted package; 3 leads	SOT23	

2004 Jan 16 2

NXP Semiconductors Product data sheet

PNP high-voltage transistor

BSS63

LIMITING VALUES

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

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
V _{CBO}	collector-base voltage	open emitter	_	-110	V
V_{CEO}	collector-emitter voltage	open base	_	-100	V
V_{EBO}	emitter-base voltage	open collector	_	-6	V
I _C	collector current (DC)		_	-100	mA
I _{CM}	peak collector current		_	-100	mA
I _{BM}	peak base current		_	-100	mA
P _{tot}	total power dissipation	T _{amb} ≤ 25 °C	_	250	mW
T_{stg}	storage temperature		-65	+150	°C
Tj	junction temperature		_	150	°C
T _{amb}	operating ambient temperature		-65	+150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
R _{th(j-a)}	thermal resistance from junction to ambient	note 1	500	K/W

Note

1. Transistor mounted on an FR4 printed-circuit board.

CHARACTERISTICS

 $T_j = 25$ °C unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
I _{CBO}	collector cut-off current	I _E = 0; V _{CB} = -90 V	_	_	-100	nA
		$I_E = 0$; $V_{CB} = -90 \text{ V}$; $T_j = 150 \text{ °C}$	-	-	-50	μΑ
I _{EBO}	emitter cut-off current	$I_C = 0; V_{EB} = -6 \text{ V}$	_	_	-100	nA
h _{FE}	DC current gain	$I_C = -10 \text{ mA}; V_{CE} = -1 \text{ V}$	30	=	_	
		$I_C = -25 \text{ mA}; V_{CE} = -1 \text{ V}$	30	_	_	
V _{CEsat}	collector-emitter saturation voltage	$I_C = -25 \text{ mA}; I_B = -2.5 \text{ mA}$	_	-	-250	mV
V _{BEsat}	base-emitter saturation voltage	$I_C = -25 \text{ mA}; I_B = -2.5 \text{ mA}$	=	=	-900	mV
C _c	collector capacitance	$I_E = i_e = 0$; $V_{CB} = -10 \text{ V}$; $f = 1 \text{ MHz}$	_	3	_	pF
f _T	transition frequency	$I_C = -25 \text{ mA}; V_{CE} = -5 \text{ V};$ f = 100 MHz	50	85	_	MHz

2004 Jan 16 3

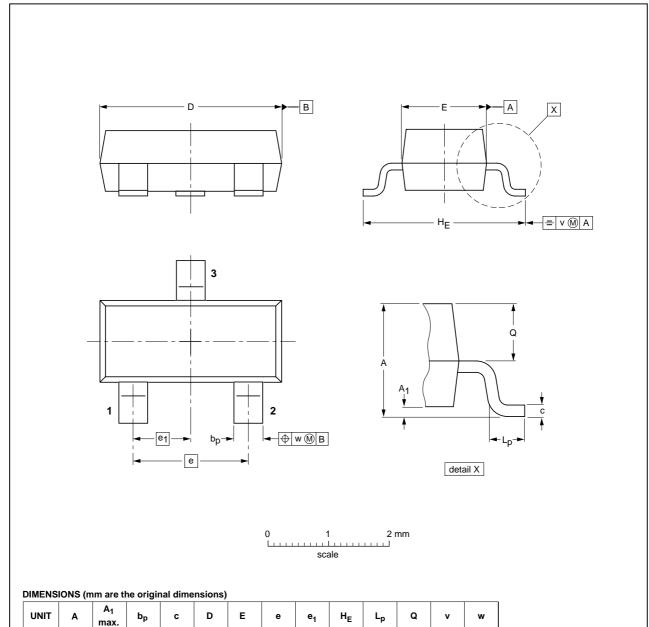
PNP high-voltage transistor

BSS63

PACKAGE OUTLINE



SOT23



OUTLINE	REFERENCES		EUROPEAN	ICCUE DATE		
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT23		TO-236AB				-04-11-04- 06-03-16

0.45

0.55

0.1

2004 Jan 16 4

max

0.38

0.9

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NXP Semiconductors Product data sheet

PNP high-voltage transistor

BSS63

DATA SHEET STATUS

DOCUMENT STATUS ⁽¹⁾	PRODUCT STATUS ⁽²⁾	DEFINITION
Objective data sheet	Development	This document contains data from the objective specification for product development.
Preliminary data sheet	Qualification	This document contains data from the preliminary specification.
Product data sheet	Production	This document contains the product specification.

Notes

- 1. Please consult the most recently issued document before initiating or completing a design.
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2004 Jan 16 5

NXP Semiconductors

Customer notification

This data sheet was changed to reflect the new company name NXP Semiconductors, including new legal definitions and disclaimers. No changes were made to the technical content, except for package outline drawings which were updated to the latest version.

Contact information

For additional information please visit: http://www.nxp.com
For sales offices addresses send e-mail to: salesaddresses@nxp.com

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