

# BCP51; BCX51; BC51PA

45 V, 1 A PNP medium power transistors

Rev. 9 — 13 October 2011

Product data sheet

## 1. Product profile

### 1.1 General description

PNP medium power transistor series in Surface-Mounted Device (SMD) plastic packages.

Table 1. Product overview

Type number <sup>[1]</sup>	Package			NPN complement
	Nexperia	JEITA	JEDEC	
BCP51	SOT223	SC-73	-	BCP54
BCX51	SOT89	SC-62	TO-243	BCX54
BC51PA	SOT1061	-	-	BC54PA

[1] Valid for all available selection groups.

### 1.2 Features and benefits

- High current
- Three current gain selections
- High power dissipation capability
- Exposed heatsink for excellent thermal and electrical conductivity (SOT89, SOT1061)
- Leadless very small SMD plastic package with medium power capability (SOT1061)
- AEC-Q101 qualified

### 1.3 Applications

- Linear voltage regulators
- High-side switches
- Battery-driven devices
- Power management
- MOSFET drivers
- Amplifiers

### 1.4 Quick reference data

Table 2. Quick reference data

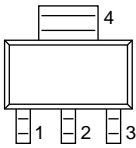
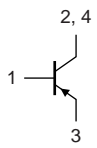
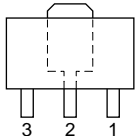
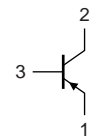
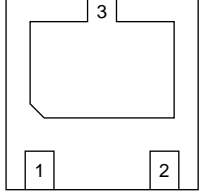
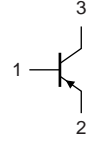
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$V_{CE0}$	collector-emitter voltage	open base	-	-	-45	V
$I_C$	collector current		-	-	-1	A
$I_{CM}$	peak collector current	single pulse; $t_p \leq 1$ ms	-	-	-2	A

Table 2. Quick reference data ...continued

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$h_{FE}$	DC current gain	$V_{CE} = -2\text{ V};$ $I_C = -150\text{ mA}$	63	-	250	
	$h_{FE}$ selection -10	$V_{CE} = -2\text{ V};$ $I_C = -150\text{ mA}$	63	-	160	
	$h_{FE}$ selection -16	$V_{CE} = -2\text{ V};$ $I_C = -150\text{ mA}$	100	-	250	

## 2. Pinning information

Table 3. Pinning

Pin	Description	Simplified outline	Graphic symbol
<b>SOT223</b>			
1	base		 sym028
2	collector		
3	emitter		
4	collector		
<b>SOT89</b>			
1	emitter		 006aaa231
2	collector		
3	base		
<b>SOT1061</b>			
1	base	 Transparent top view	 sym013
2	emitter		
3	collector		

### 3. Ordering information

**Table 4. Ordering information**

Type number <sup>[1]</sup>	Package		
	Name	Description	Version
BCP51	SC-73	plastic surface-mounted package with increased heatsink; 4 leads	SOT223
BCX51	SC-62	plastic surface-mounted package; collector pad for good heat transfer; 3 leads	SOT89
BC51PA	HUSON3	plastic thermal enhanced ultra thin small outline package; no leads; 3 terminals; body 2 × 2 × 0.65 mm	SOT1061

[1] Valid for all available selection groups.

### 4. Marking

**Table 5. Marking codes**

Type number	Marking code
BCP51	BCP51
BCP51-10	BCP51/10
BCP51-16	BCP51/16
BCX51	AA
BCX51-10	AC
BCX51-16	AD
BC51PA	BP
BC51-10PA	BQ
BC51-16PA	BR

## 5. Limiting values

**Table 6. 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	-	-45	V			
$V_{CEO}$	collector-emitter voltage	open base	-	-45	V			
$V_{EBO}$	emitter-base voltage	open collector	-	-5	V			
$I_C$	collector current		-	-1	A			
$I_{CM}$	peak collector current	single pulse; $t_p \leq 1$ ms	-	-2	A			
$I_B$	base current		-	-0.3	A			
$I_{BM}$	peak base current	single pulse; $t_p \leq 1$ ms	-	-0.3	A			
$P_{tot}$	total power dissipation	$T_{amb} \leq 25$ °C						
			BCP51	[1]	-	0.65	W	
				[2]	-	1.00	W	
				[3]	-	1.35	W	
			BCX51	[1]	-	0.50	W	
				[2]	-	0.95	W	
				[3]	-	1.35	W	
			BC51PA	[1]	-	0.42	W	
				[2]	-	0.83	W	
				[3]	-	1.10	W	
				[4]	-	0.81	W	
				[5]	-	1.65	W	
			$T_j$	junction temperature		-	150	°C
			$T_{amb}$	ambient temperature		-55	+150	°C
			$T_{stg}$	storage temperature		-65	+150	°C

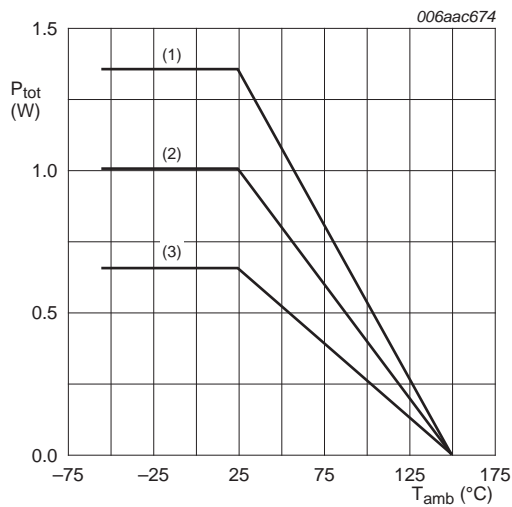
[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

[2] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.

[3] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for collector 6 cm<sup>2</sup>.

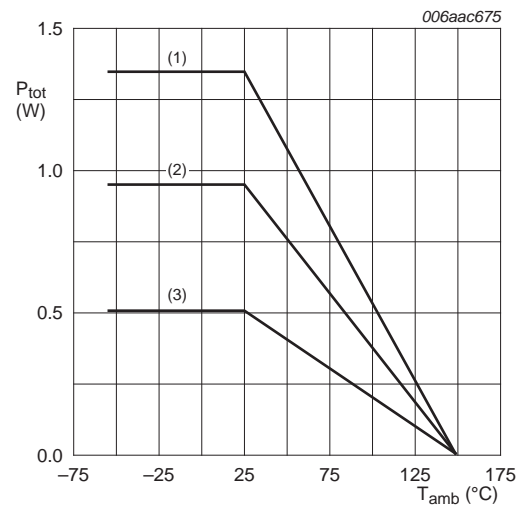
[4] Device mounted on an FR4 PCB, 4-layer copper, tin-plated and standard footprint.

[5] Device mounted on an FR4 PCB, 4-layer copper, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.



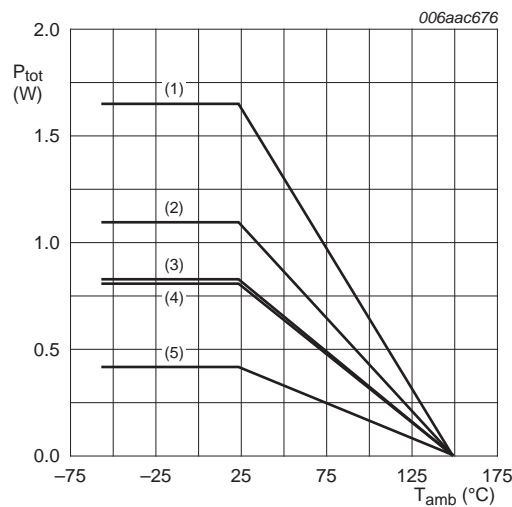
- (1) FR4 PCB, mounting pad for collector 6 cm<sup>2</sup>
- (2) FR4 PCB, mounting pad for collector 1 cm<sup>2</sup>
- (3) FR4 PCB, standard footprint

**Fig 1. Power derating curves SOT223**



- (1) FR4 PCB, mounting pad for collector 6 cm<sup>2</sup>
- (2) FR4 PCB, mounting pad for collector 1 cm<sup>2</sup>
- (3) FR4 PCB, standard footprint

**Fig 2. Power derating curves SOT89**



- (1) FR4 PCB, 4-layer copper, mounting pad for collector 1 cm<sup>2</sup>
- (2) FR4 PCB, single-sided copper, mounting pad for collector 6 cm<sup>2</sup>
- (3) FR4 PCB, single-sided copper, mounting pad for collector 1 cm<sup>2</sup>
- (4) FR4 PCB, 4-layer copper, standard footprint
- (5) FR4 PCB, single-sided copper, standard footprint

**Fig 3. Power derating curves SOT1061**

## 6. Thermal characteristics

**Table 7. Thermal characteristics**

Symbol	Parameter	Conditions	Min	Typ	Max	Unit							
$R_{th(j-a)}$	thermal resistance from junction to ambient	in free air	BCP51	[1]	-	-	192	K/W					
				[2]	-	-	125	K/W					
				[3]	-	-	93	K/W					
			BCX51	[1]	-	-	250	K/W					
				[2]	-	-	132	K/W					
				[3]	-	-	93	K/W					
			BC51PA	[1]	-	-	298	K/W					
				[2]	-	-	151	K/W					
				[3]	-	-	114	K/W					
	[4]	-		-	154	K/W							
	[5]	-		-	76	K/W							
	$R_{th(j-sp)}$	thermal resistance from junction to solder point											
									BCP51	-	-	16	K/W
									BCX51	-	-	16	K/W
									BC51PA	-	-	20	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 collector 1 cm<sup>2</sup>.

[3] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for collector 6 cm<sup>2</sup>.

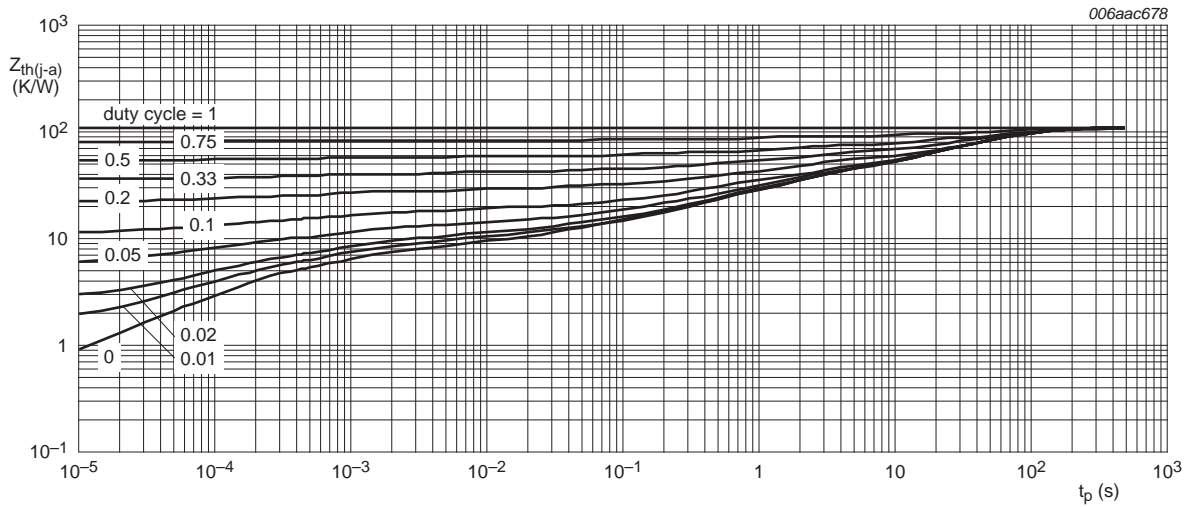
[4] Device mounted on an FR4 PCB, 4-layer copper, tin-plated and standard footprint.

[5] Device mounted on an FR4 PCB, 4-layer copper, tin-plated, mounting pad for collector 1 cm<sup>2</sup>.



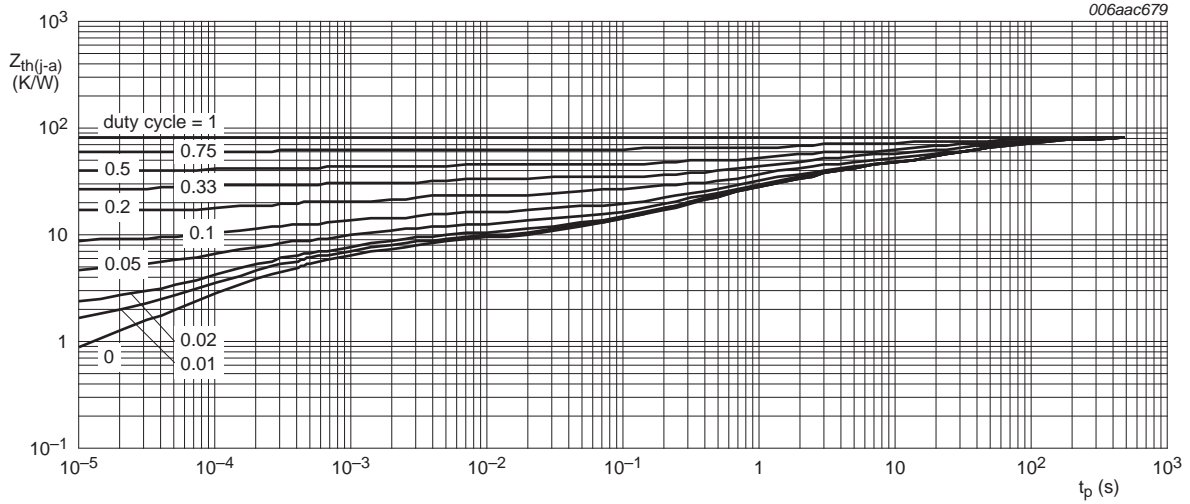
FR4 PCB, standard footprint

**Fig 4. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT223; typical values**



FR4 PCB, mounting pad for collector 1 cm<sup>2</sup>

**Fig 5. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT223; typical values**



FR4 PCB, mounting pad for collector 6 cm<sup>2</sup>

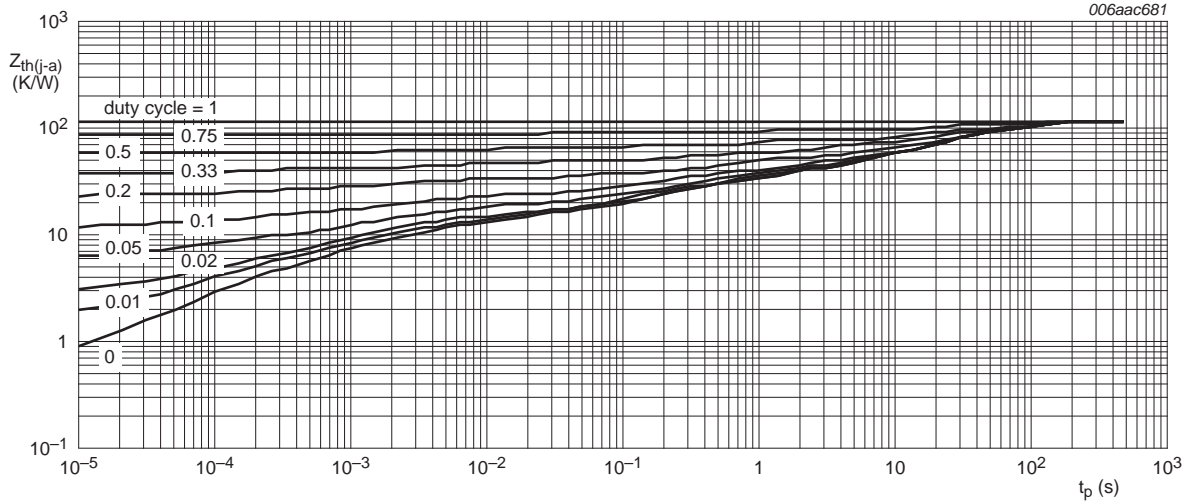
**Fig 6. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT223; typical values**



FR4 PCB, standard footprint

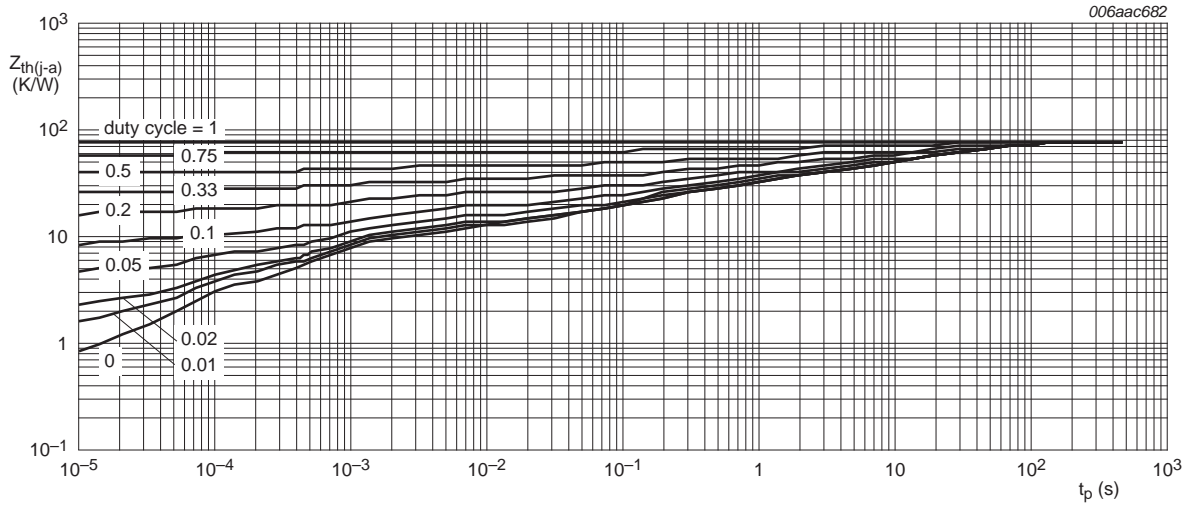
**Fig 7. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT89; typical values**





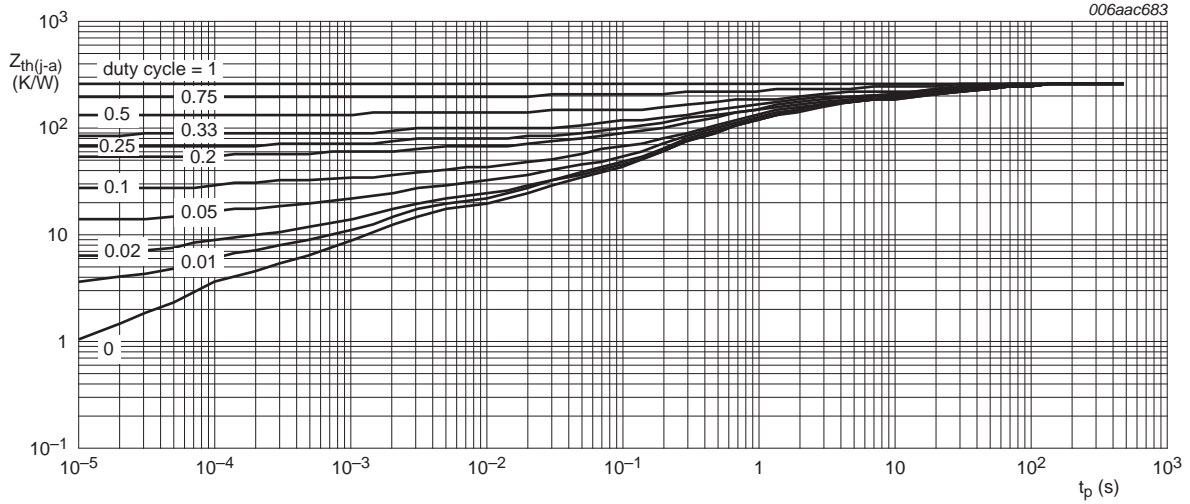
FR4 PCB, mounting pad for collector 1 cm<sup>2</sup>

**Fig 8. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT89; typical values**



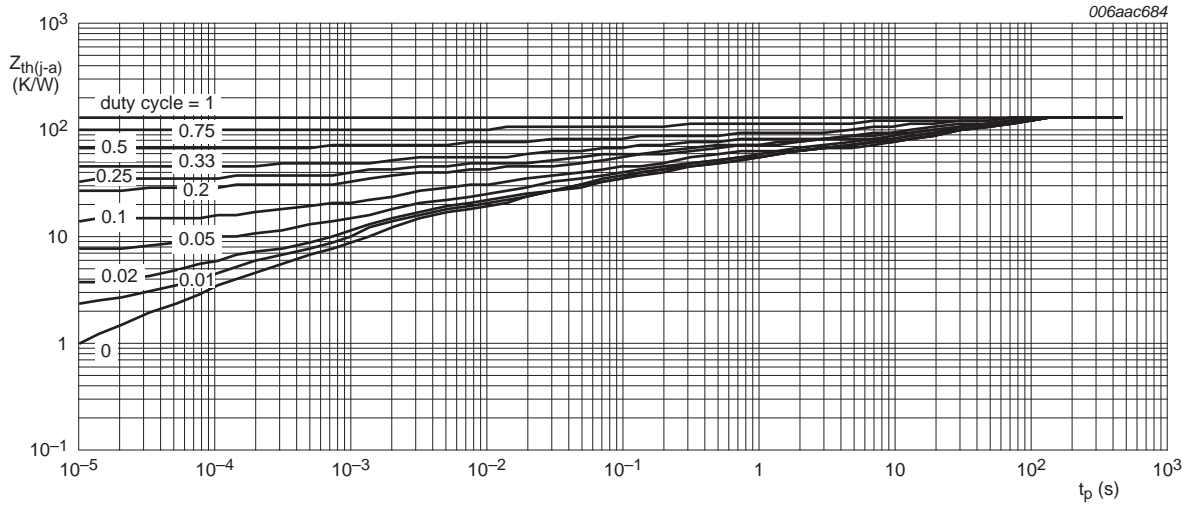
FR4 PCB, mounting pad for collector 6 cm<sup>2</sup>

**Fig 9. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT89; typical values**



FR4 PCB, single-sided copper, standard footprint

**Fig 10. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT1061; typical values**



FR4 PCB, single-sided copper, mounting pad for collector 1 cm<sup>2</sup>

**Fig 11. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT1061; typical values**



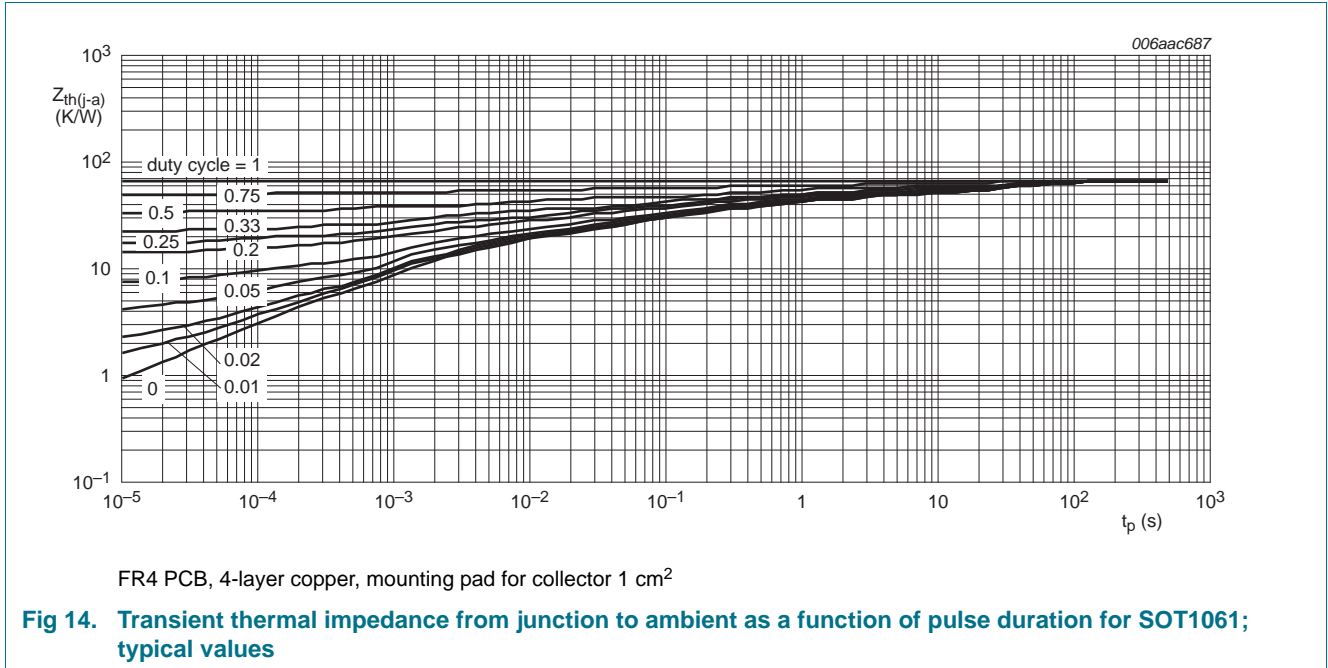
FR4 PCB, single-sided copper, mounting pad for collector 6 cm<sup>2</sup>

**Fig 12. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT1061; typical values**



FR4 PCB, 4-layer copper, standard footprint

**Fig 13. Transient thermal impedance from junction to ambient as a function of pulse duration for SOT1061; typical values**



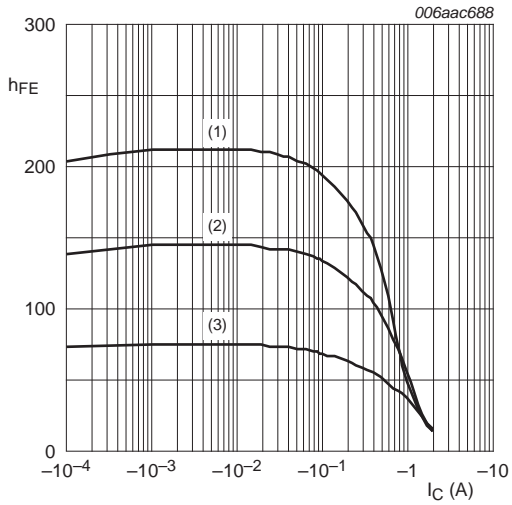
## 7. Characteristics

**Table 8. Characteristics**

*T<sub>amb</sub> = 25 °C unless otherwise specified.*

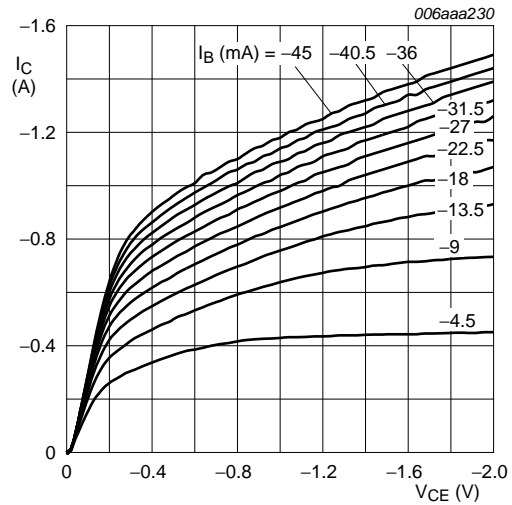
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
I <sub>CBO</sub>	collector-base cut-off current	V <sub>CB</sub> = -30 V; I <sub>E</sub> = 0 A	-	-	-100	nA
		V <sub>CB</sub> = -30 V; I <sub>E</sub> = 0 A; T <sub>j</sub> = 150 °C	-	-	-10	μA
I <sub>EBO</sub>	emitter-base cut-off current	V <sub>EB</sub> = -5 V; I <sub>C</sub> = 0 A	-	-	-100	nA
h <sub>FE</sub>	DC current gain	V <sub>CE</sub> = -2 V				
		I <sub>C</sub> = -5 mA	63	-	-	
		I <sub>C</sub> = -150 mA	63	-	250	
		I <sub>C</sub> = -500 mA	[1] 40	-	-	
	DC current gain	V <sub>CE</sub> = -2 V				
	h <sub>FE</sub> selection -10	I <sub>C</sub> = -150 mA	63	-	160	
	h <sub>FE</sub> selection -16	I <sub>C</sub> = -150 mA	100	-	250	
V <sub>CEsat</sub>	collector-emitter saturation voltage	I <sub>C</sub> = -500 mA; I <sub>B</sub> = -50 mA	[1] -	-	-0.5	V
V <sub>BE</sub>	base-emitter voltage	V <sub>CE</sub> = -2 V; I <sub>C</sub> = -500 mA	[1] -	-	-1	V
C <sub>C</sub>	collector capacitance	V <sub>CB</sub> = -10 V; I <sub>E</sub> = i <sub>e</sub> = 0 A; f = 1 MHz	-	15	-	pF
f <sub>T</sub>	transition frequency	V <sub>CE</sub> = -5 V; I <sub>C</sub> = -50 mA; f = 100 MHz	-	145	-	MHz

[1] Pulse test: t<sub>p</sub> ≤ 300 μs; δ = 0.02.



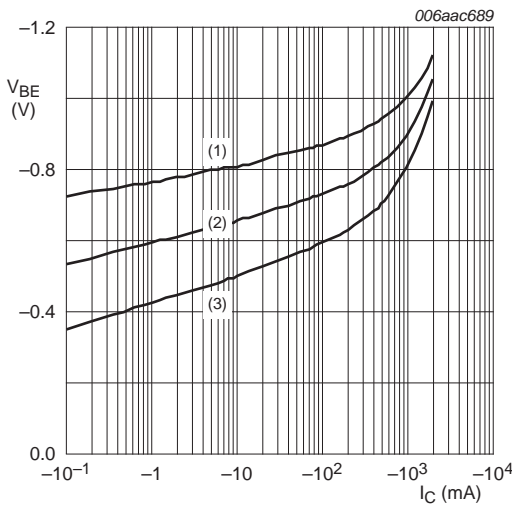
$V_{CE} = -2 \text{ V}$   
 (1)  $T_{amb} = 100 \text{ }^\circ\text{C}$   
 (2)  $T_{amb} = 25 \text{ }^\circ\text{C}$   
 (3)  $T_{amb} = -55 \text{ }^\circ\text{C}$

**Fig 15. DC current gain as a function of collector current; typical values**



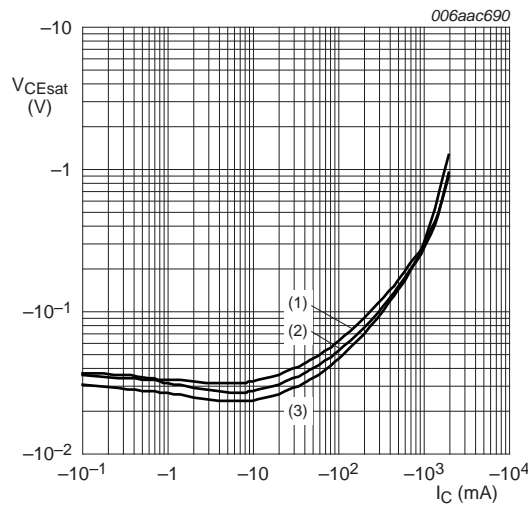
$T_{amb} = 25 \text{ }^\circ\text{C}$

**Fig 16. Collector current as a function of collector-emitter voltage; typical values**



$V_{CE} = -2 \text{ V}$   
 (1)  $T_{amb} = -55 \text{ }^\circ\text{C}$   
 (2)  $T_{amb} = 25 \text{ }^\circ\text{C}$   
 (3)  $T_{amb} = 100 \text{ }^\circ\text{C}$

**Fig 17. Base-emitter voltage as a function of collector current; typical values**



$I_C/I_B = 10$   
 (1)  $T_{amb} = 100 \text{ }^\circ\text{C}$   
 (2)  $T_{amb} = 25 \text{ }^\circ\text{C}$   
 (3)  $T_{amb} = -55 \text{ }^\circ\text{C}$

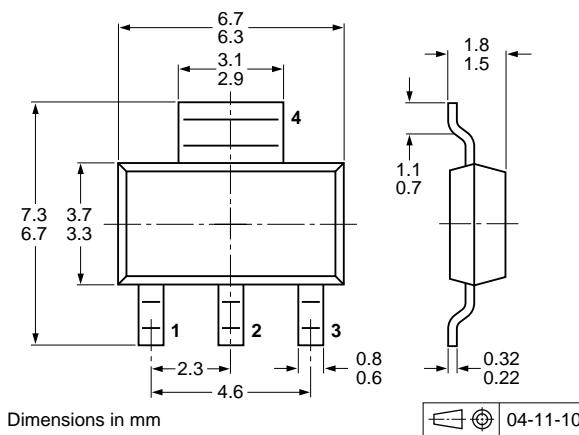
**Fig 18. Collector-emitter saturation voltage as a function of collector current; typical values**

## 8. Test information

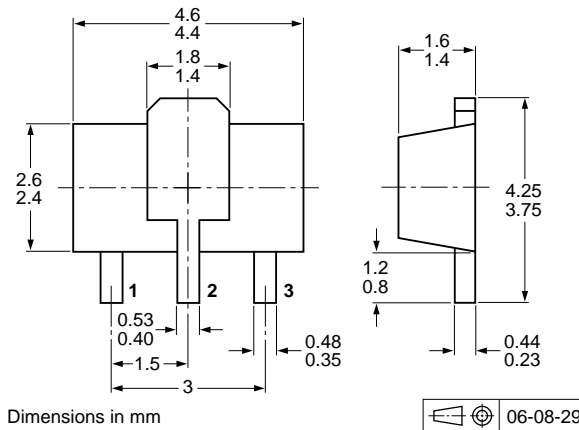
### 8.1 Quality information

This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard *Q101 - Stress test qualification for discrete semiconductors*, and is suitable for use in automotive applications.

## 9. Package outline



**Fig 19. Package outline SOT223 (SC-73)**



**Fig 20. Package outline SOT89 (SC-62/TO-243)**

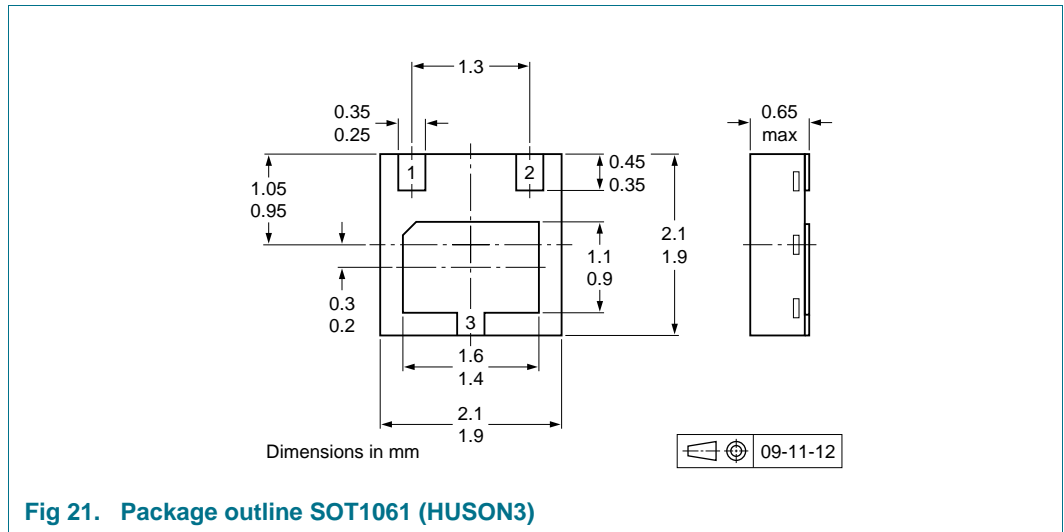


Fig 21. Package outline SOT1061 (HUSON3)

## 10. Packing information

Table 9. Packing methods

The indicated -xxx are the last three digits of the 12NC ordering code.<sup>[1]</sup>

Type number <sup>[2]</sup>	Package	Description	Packing quantity		
			1000	3000	4000
BCP51	SOT223	8 mm pitch, 12 mm tape and reel	-115	-	-135
BCX51	SOT89	8 mm pitch, 12 mm tape and reel; T1 <sup>[3]</sup>	-115	-	-135
		8 mm pitch, 12 mm tape and reel; T3 <sup>[4]</sup>	-146	-	-
BC51PA	SOT1061	4 mm pitch, 8 mm tape and reel	-	-115	-

[1] For further information and the availability of packing methods, see [Section 14](#).

[2] Valid for all available selection groups.

[3] T1: normal taping

[4] T3: 90° rotated taping

## 11. Soldering

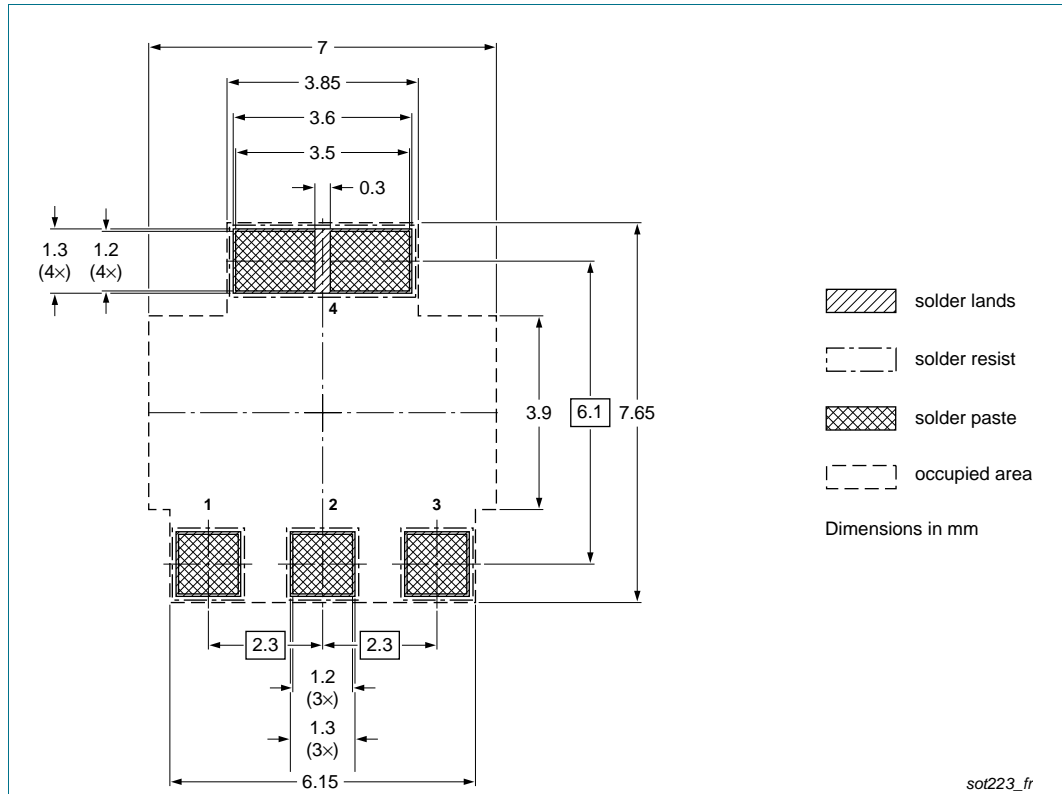


Fig 22. Reflow soldering footprint SOT223 (SC-73)

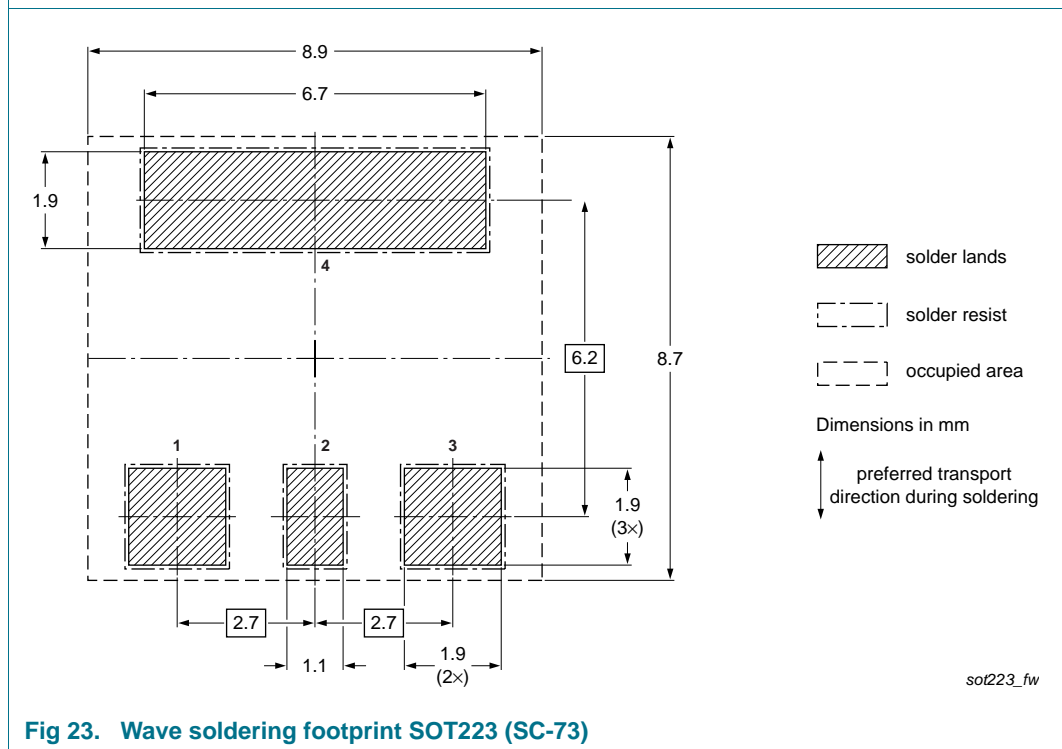
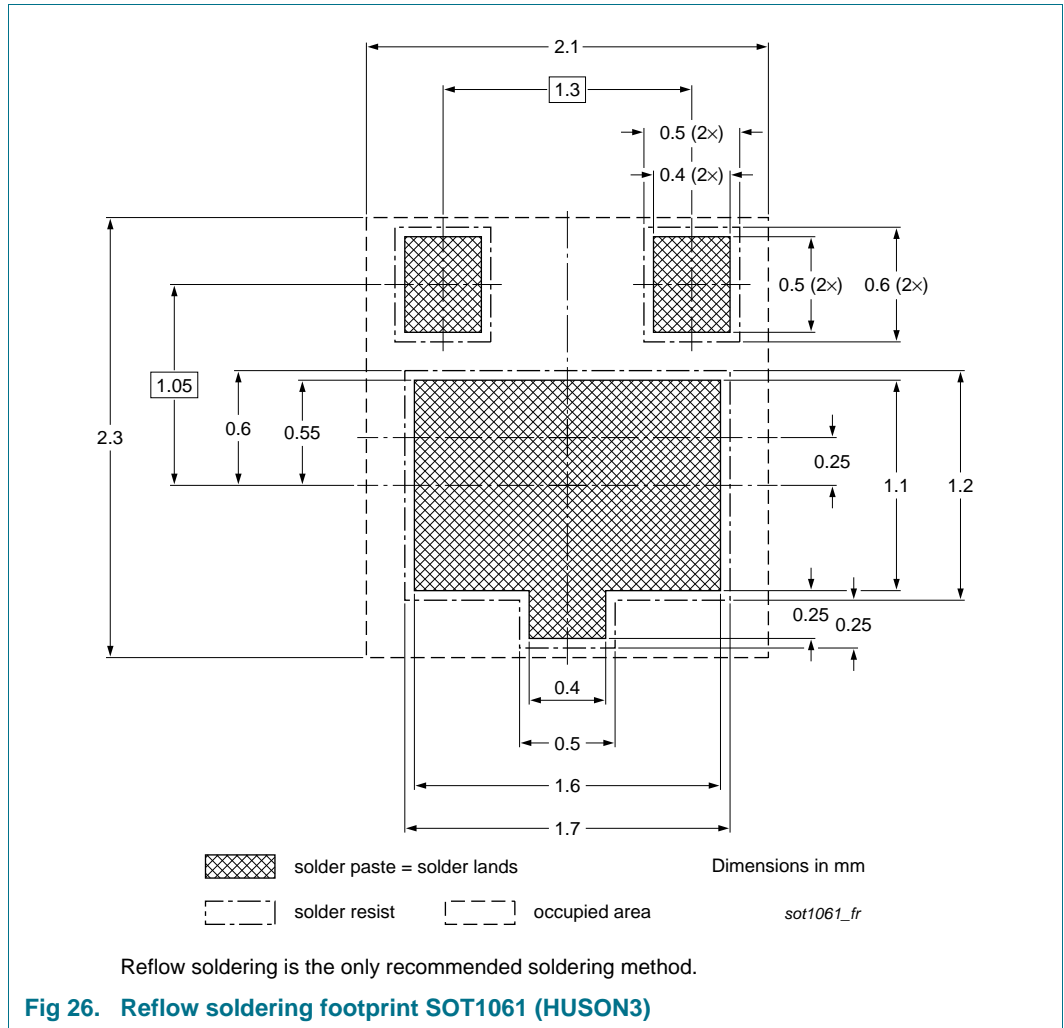


Fig 23. Wave soldering footprint SOT223 (SC-73)







## 12. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BCP51_BCX51_BC51PA v.9	20111013	Product data sheet	-	BC636_BCP51_BCX51 v.8
Modifications:	<ul style="list-style-type: none"> <li>Deleted type number BC636</li> <li>Added Type number BC51PA</li> <li><a href="#">Section 1 "Product profile"</a>: updated</li> <li><a href="#">Table 6</a> and <a href="#">7</a>: updated according to latest measurements</li> <li><a href="#">Figure 1</a> to <a href="#">9</a>, <a href="#">15</a>, <a href="#">17</a>, <a href="#">18</a> and <a href="#">21</a>: updated</li> <li><a href="#">Figure 10</a> to <a href="#">14</a>: added</li> <li><a href="#">Section 8 "Test information"</a>: added</li> <li><a href="#">Section 11 "Soldering"</a>: added</li> <li><a href="#">Section 13 "Legal information"</a>: updated</li> </ul>			
BC636_BCP51_BCX51 v.8	20080222	Product data sheet	-	BC636_BCP51_BCX51 v.7
BC636_BCP51_BCX51 v.7	20070629	Product data sheet	-	BC636_BCP51_BCX51 v.6
BC636_BCP51_BCX51 v.6	20060329	Product data sheet	-	BC636_638_640 v.5 BCP51_52_53 v.5 BCX51_52_53 v.4
BC636_638_640 v.5	20041011	Product specification	-	BC636_638_640 v.4
BCP51_52_53 v.5	20030206	Product specification	-	BCP51_52_53 v.4
BCX51_52_53 v.4	20011010	Product specification	-	BCX51_52_53 v.3

## 13. Legal information

### 13.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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.nexperia.com>.

### 13.2 Definitions

**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. Nexperia 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 Nexperia 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 Nexperia and its customer, unless Nexperia and customer have explicitly agreed otherwise in writing. In no event however, shall an agreement be valid in which the Nexperia product is deemed to offer functions and qualities beyond those described in the Product data sheet.

### 13.3 Disclaimers

**Limited warranty and liability** — Information in this document is believed to be accurate and reliable. However, Nexperia 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.

In no event shall Nexperia 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, Nexperia's 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 Nexperia.

**Right to make changes** — Nexperia 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** — Nexperia 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 a Nexperia product can reasonably be expected to result in personal injury, death or severe property or environmental damage. Nexperia accepts no liability for inclusion and/or use of Nexperia products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

**Applications** — Applications that are described herein for any of these products are for illustrative purposes only. Nexperia 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 Nexperia products, and Nexperia accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the Nexperia 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.

Nexperia 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 Nexperia 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). Nexperia 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.

**Terms and conditions of commercial sale** — Nexperia products are sold subject to the general terms and conditions of commercial sale, as published at <http://www.nexperia.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. Nexperia hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of Nexperia 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.

**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.

## 13.4 Trademarks

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

## 14. Contact information

---

For more information, please visit: <http://www.nexperia.com>

For sales office addresses, please send an email to: [salesaddresses@nexperia.com](mailto:salesaddresses@nexperia.com)

## 15. Contents

---

<b>1</b>	<b>Product profile</b> . . . . .	<b>1</b>
1.1	General description . . . . .	1
1.2	Features and benefits . . . . .	1
1.3	Applications . . . . .	1
1.4	Quick reference data . . . . .	1
<b>2</b>	<b>Pinning information</b> . . . . .	<b>2</b>
<b>3</b>	<b>Ordering information</b> . . . . .	<b>3</b>
<b>4</b>	<b>Marking</b> . . . . .	<b>3</b>
<b>5</b>	<b>Limiting values</b> . . . . .	<b>4</b>
<b>6</b>	<b>Thermal characteristics</b> . . . . .	<b>6</b>
<b>7</b>	<b>Characteristics</b> . . . . .	<b>12</b>
<b>8</b>	<b>Test information</b> . . . . .	<b>14</b>
8.1	Quality information . . . . .	14
<b>9</b>	<b>Package outline</b> . . . . .	<b>14</b>
<b>10</b>	<b>Packing information</b> . . . . .	<b>15</b>
<b>11</b>	<b>Soldering</b> . . . . .	<b>16</b>
<b>12</b>	<b>Revision history</b> . . . . .	<b>19</b>
<b>13</b>	<b>Legal information</b> . . . . .	<b>20</b>
13.1	Data sheet status . . . . .	20
13.2	Definitions . . . . .	20
13.3	Disclaimers . . . . .	20
13.4	Trademarks . . . . .	21
<b>14</b>	<b>Contact information</b> . . . . .	<b>21</b>
<b>15</b>	<b>Contents</b> . . . . .	<b>22</b>



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](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.