# **BC817W** series

## 45 V, 500 mA NPN general-purpose transistors

Rev. 8 — 1 July 2022

**Product data sheet** 

### 1. General description

NPN general-purpose transistor in a very small SOT323 (SC70) Surface-Mounted Device (SMD) plastic package.

**Table 1. Product overview** 

Type number	Package	PNP complement		
	Nexperia	JEDEC	JEITA	
BC817W	SOT323	-	SC-70	BC807W
BC817-16W				BC807-16W
BC817-25W				BC807-25W
BC817-40W				BC807-40W

#### 2. Features and benefits

- · High current
- · Three current gain selections

### 3. Applications

· General-purpose switching and amplification

#### 4. Quick reference data

Table 2. Quick reference data

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
$V_{CEO}$	collector-emitter voltage	open base; T <sub>amb</sub> = 25 °C		-	-	45	V
I <sub>C</sub>	collector current	T <sub>amb</sub> = 25 °C		-	-	500	mA
I <sub>CM</sub>	peak collector current	single pulse; t <sub>p</sub> ≤ 1 ms; T <sub>amb</sub> = 25 °C		-	-	1	А
h <sub>FE</sub>	DC current gain						
	BC817W	V <sub>CE</sub> = 1 V; I <sub>C</sub> = 100 mA T <sub>amb</sub> = 25 °C	[1]	100	-	600	
	BC817-16W		[1]	100	-	250	
	BC817-25W		[1]	160	-	400	
	BC817-40W		[1]	250	-	600	

[1] pulsed;  $t_p \le 300 \ \mu s$ ;  $\delta \le 0.02$ 



## 5. Pinning information

#### **Table 3. Pinning**

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	В	base	<u></u> 3	С
2	E	emitter		
3	С	collector		B—
				É
				sym123
			1	

## 6. Ordering information

#### **Table 4. Ordering information**

Type number	Package	Package					
	Name	Description	Version				
BC817W	SC-70	Plastic surface-mounted package; 3 leads	SOT323				
BC817-16W							
BC817-25W							
BC817-40W							

## 7. Marking

#### Table 5. Marking

Type number	Marking code[1]
BC817W	6D%
BC817-16W	6A%
BC817-25W	6B%
BC817-40W	6C%

[1] % = placeholder for manufacturing site code

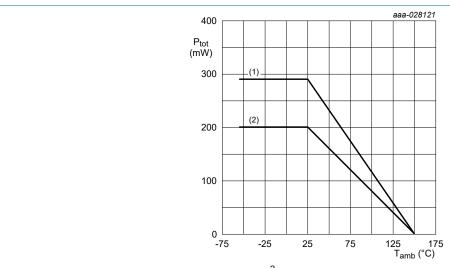
## 8. Limiting values

#### **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; T <sub>amb</sub> = 25 °C	-	50	V
$V_{CEO}$	collector-emitter voltage	open base; T <sub>amb</sub> = 25 °C	-	45	V
V <sub>EBO</sub>	emitter-base voltage	open collector; T <sub>amb</sub> = 25 °C	-	5	V
I <sub>C</sub>	collector current	T <sub>amb</sub> = 25 °C	-	500	mA
I <sub>CM</sub>	peak collector current	single pulse; t <sub>p</sub> ≤ 1 ms; T <sub>amb</sub> = 25 °C	-	1	А
I <sub>BM</sub>	peak base current	single pulse; $t_p \le 1$ ms; $T_{amb} = 25$ °C	-	200	mA
P <sub>tot</sub>	total power dissipation	$T_{amb} \le 25 ^{\circ}C$ [1		200	mW
		[3		290	mW
Tj	junction temperature		-	150	°C
T <sub>amb</sub>	ambient temperature		-65	150	°C
T <sub>stg</sub>	storage temperature		-65	150	°C

- [1] Device mounted on an FR4 Printed-Circuit-Board (PCB), single-sided copper, tin-plated and standard footprint.
- [2] Valid for all available selection groups.
- [3] Device mounted on an FR4 PCB, single-sided copper, tin-plated; mounting pad for collector 1 cm<sup>2</sup>.



- (1) FFR4 PCB, single-sided copper; 1 cm<sup>2</sup>
- (2) FR4 PCB, single-sided copper; standard footprint

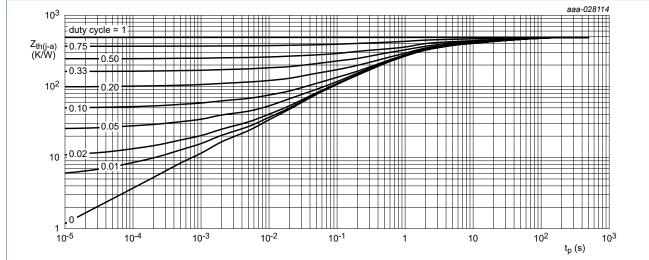
Fig. 1. Power derating curves

### 9. Thermal characteristics

**Table 7. Thermal characteristics** 

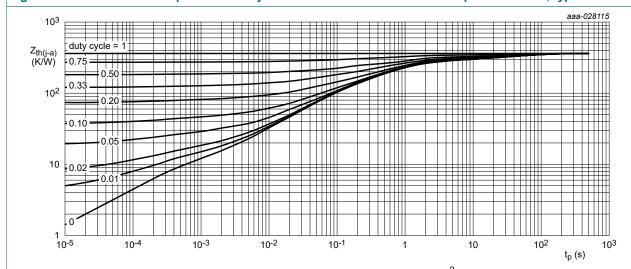
Symbol	Parameter	Conditions		Min	Тур	Max	Unit
R <sub>th(j-a)</sub>	thermal resistance from junction to ambient	in free air	[1] [2]	-	-	625	K/W
			[3] [2]	-	-	431	K/W

- [1] Device mounted on an FR4 PCB; single-sided copper; tin-plated and standard footprint.
- [2] Valid for all available selection groups.
- [3] Device mounted on an FR4 PCB, single-sided copper, tin-plated; monting pad for collector 1 cm<sup>2</sup>.



FR4 PCB, single-sided, tin-plated and standard footprint

Fig. 2. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values



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

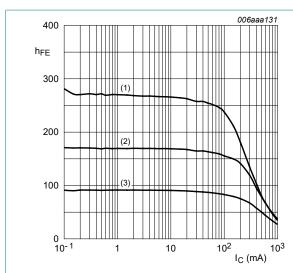
Fig. 3. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

### 10. Characteristics

#### **Table 8. Characteristics**

Parameter	Conditions		Min	Тур	Max	Unit
collector-base breakdown voltage	I <sub>C</sub> = 100 μA; I <sub>E</sub> = 0 A; T <sub>amb</sub> = 25 °C		50	-	-	V
collector-emitter breakdown voltage	I <sub>C</sub> = 10 mA; I <sub>E</sub> = 0 A; T <sub>amb</sub> = 25 °C		45	-	-	V
emitter-base breakdown voltage	I <sub>E</sub> = 100 μA; I <sub>C</sub> = 0 A; T <sub>amb</sub> = 25 °C		5	-	-	V
collector-base	V <sub>CB</sub> = 20 V; I <sub>E</sub> = 0 A; T <sub>amb</sub> = 25 °C		-	-	100	nA
cut-off current	V <sub>CB</sub> = 20 V; I <sub>E</sub> = 0 A; T <sub>j</sub> = 150 °C		-	-	5	μA
emitter-base cut-off current	V <sub>EB</sub> = 5 V; I <sub>C</sub> = 0 A; T <sub>amb</sub> = 25 °C		-	-	100	nA
DC current gain				'		'
BC817W	V <sub>CE</sub> = 1 V; I <sub>C</sub> = 100 mA; T <sub>amb</sub> = 25 °C	[1]	100	-	600	
BC817-16W		[1]	100	-	250	
BC817-25W		[1]	160	-	400	
BC817-40W		[1]	250	-	600	
DC current gain	V <sub>CE</sub> = 1 V; I <sub>C</sub> = 500 mA; T <sub>amb</sub> = 25 °C	[1]	40	-	-	
collector-emitter saturation voltage	$I_C = 500 \text{ mA}; I_B = 50 \text{ mA}; T_{amb} = 25 \text{ °C}$	[1]	-	-	700	mV
base-emitter voltage	V <sub>CE</sub> = 1 V; I <sub>C</sub> = 500 mA; T <sub>amb</sub> = 25 °C	[1] [2]	-	-	1.2	V
transition frequency	V <sub>CE</sub> = 5 V; I <sub>C</sub> = 10 mA; f = 100 MHz; T <sub>amb</sub> = 25 °C		100	-	-	MHz
collector capacitance	$V_{CB} = 10 \text{ V}; I_{E} = i_{e} = 0 \text{ A}; f = 1 \text{ MHz};$ $T_{amb} = 25 \text{ °C}$		-	3	-	pF
	collector-base breakdown voltage collector-emitter breakdown voltage emitter-base breakdown voltage collector-base cut-off current emitter-base cut-off current DC current gain BC817W BC817-16W BC817-25W BC817-40W DC current gain collector-emitter saturation voltage base-emitter voltage	collector-base breakdown voltage	collector-base breakdown voltage $I_C = 100  \mu A;  I_E = 0  A;  T_{amb} = 25  ^{\circ}C$ collector-emitter breakdown voltage $I_C = 10  \text{mA};  I_E = 0  A;  T_{amb} = 25  ^{\circ}C$ emitter-base breakdown voltage $I_E = 100  \mu A;  I_C = 0  A;  T_{amb} = 25  ^{\circ}C$ collector-base cut-off current $V_{CB} = 20  V;  I_E = 0  A;  T_{amb} = 25  ^{\circ}C$ emitter-base cut-off current $V_{CB} = 20  V;  I_C = 0  A;  T_{amb} = 25  ^{\circ}C$ DC current gain $V_{CE} = 1  V;  I_C = 100  mA;  T_{amb} = 25  ^{\circ}C$ BC817W $V_{CE} = 1  V;  I_C = 100  mA;  T_{amb} = 25  ^{\circ}C$ BC817-16W[1]BC817-25W[1]BC817-40W[1]DC current gain $V_{CE} = 1  V;  I_C = 500  mA;  T_{amb} = 25  ^{\circ}C$ collector-emitter saturation voltage $I_C = 500  mA;  I_B = 50  mA;  T_{amb} = 25  ^{\circ}C$ base-emitter voltage $V_{CE} = 1  V;  I_C = 500  mA;  T_{amb} = 25  ^{\circ}C$ transition frequency $V_{CE} = 5  V;  I_C = 10  mA;  f = 100  \text{MHz};  T_{amb} = 25  ^{\circ}C$ collector capacitance $V_{CB} = 10  V;  I_E = i_E = 0  A;  f = 1  \text{MHz};$	collector-base breakdown voltage $I_C = 100  \mu A; I_E = 0  A; T_{amb} = 25  ^{\circ}C$ 50         collector-emitter breakdown voltage $I_C = 10  \text{mA}; I_E = 0  A; T_{amb} = 25  ^{\circ}C$ 45         emitter-base breakdown voltage $I_E = 100  \mu A; I_C = 0  A; T_{amb} = 25  ^{\circ}C$ 5         collector-base cut-off current $V_{CB} = 20  V; I_E = 0  A; T_{amb} = 25  ^{\circ}C$ -         emitter-base cut-off current $V_{CB} = 5  V; I_C = 0  A; T_{amb} = 25  ^{\circ}C$ -         DC current gain $V_{CE} = 1  V; I_C = 100  \text{mA}; T_{amb} = 25  ^{\circ}C$ [1] 100         BC817-40W       [1] 160         BC817-40W       [1] 250         DC current gain $V_{CE} = 1  V; I_C = 500  \text{mA}; T_{amb} = 25  ^{\circ}C$ [1] 40         collector-emitter saturation voltage $I_C = 500  \text{mA}; I_B = 50  \text{mA}; T_{amb} = 25  ^{\circ}C$ [1] -         base-emitter voltage $V_{CE} = 1  V; I_C = 500  \text{mA}; T_{amb} = 25  ^{\circ}C$ [1] -         transition frequency $V_{CE} = 5  V; I_C = 10  \text{mA}; f = 100  \text{MHz}; T_{amb} = 25  ^{\circ}C$ [1] -         collector capacitance $V_{CB} = 10  V; I_E = i_E = 0  A; f = 1  \text{MHz};$ -	collector-base breakdown voltage $I_C = 100  \mu A; I_E = 0  A; T_{amb} = 25  ^{\circ}C$ 50       -         collector-emitter breakdown voltage $I_C = 10  \text{mA}; I_E = 0  A; T_{amb} = 25  ^{\circ}C$ 45       -         emitter-base breakdown voltage $I_E = 100  \mu A; I_C = 0  A; T_{amb} = 25  ^{\circ}C$ 5       -         collector-base cut-off current $V_{CB} = 20  V; I_E = 0  A; T_{amb} = 25  ^{\circ}C$ -       -         emitter-base cut-off current $V_{CB} = 5  V; I_C = 0  A; T_{amb} = 25  ^{\circ}C$ -       -         DC current gain $V_{CE} = 1  V; I_C = 100  \text{mA}; T_{amb} = 25  ^{\circ}C$ [1] $100  - 100  - 10$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

 $<sup>\</sup>begin{array}{ll} [1] & \text{pulsed; } t_p \leq 300 \; \mu \text{s; } \delta \leq 0.02 \\ [2] & V_{BE} \; \text{decreases by about 2 mV/K with increasing temperature.} \end{array}$ 



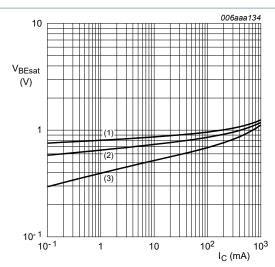
$$V_{CE} = 1 V$$

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

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

(3) 
$$T_{amb} = -55 \, ^{\circ}C$$

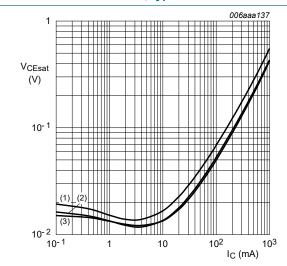
Fig. 4. BC817-16W: DC current gain as a function of collector current; typical values



(1) 
$$T_{amb} = -55 \, ^{\circ}C$$

(3) 
$$T_{amb} = 150 \, ^{\circ}C$$

Fig. 5. BC817-16W: Base-emitter saturation voltage as a function of collector current; typical values

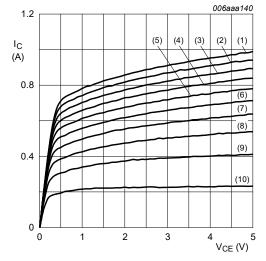


IC/IB = 10

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

(3) 
$$T_{amb} = -55 \, ^{\circ}C$$

Fig. 6. BC817-16W: Collector-emitter saturation voltage as a function of collector current; typical values



T<sub>amb</sub> = 25 °C

 $(1) I_B = 16.0 \text{ mA}$ 

(2)  $I_B = 14.4 \text{ mA}$ 

 $(3) I_B = 12.8 \text{ mA}$ 

(4)  $I_B = 11.2 \text{ mA}$ 

 $(5) I_B = 9.6 \text{ mA}$ 

(6)  $I_B = 8.0 \text{ mA}$ 

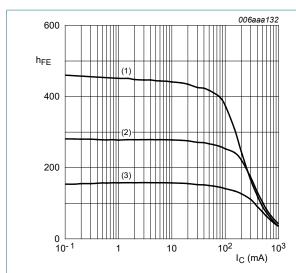
 $(7) I_B = 6.4 \text{ mA}$ 

(8)  $I_B = 4.8 \text{ mA}$ 

(9)  $I_B = 3.2 \text{ mA}$ 

 $(10) I_B = 1.6 mA$ 

Fig. 7. BC817-16W: Collector current as a function of collector-emitter voltage; typical values



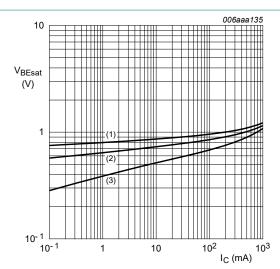
$$V_{CE} = 1 V$$

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

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

(3) 
$$T_{amb} = -55 \, ^{\circ}C$$

Fig. 8. BC817-25W: DC current gain as a function of collector current; typical values

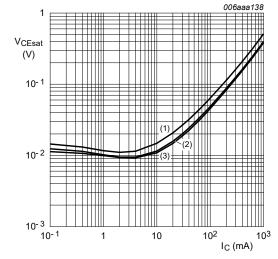


(1) 
$$T_{amb} = -55 \, ^{\circ}C$$

(2) 
$$T_{amb}$$
 = 25 °C

(3) 
$$T_{amb} = 150 \, ^{\circ}C$$

Fig. 9. BC817-25W: Base-emitter saturation voltage as a function of collector current; typical values

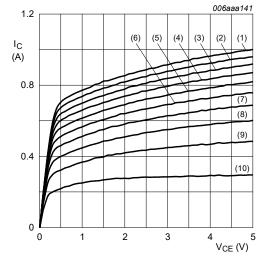


IC/IB = 10

(2) 
$$T_{amb}$$
 = 25 °C

(3) 
$$T_{amb} = -55 \, ^{\circ}C$$

Fig. 10. BC817-25W: Collector-emitter saturation voltage as a function of collector current; typical values



T<sub>amb</sub> = 25 °C

 $(1) I_B = 13.0 \text{ mA}$ 

 $(2) I_B = 11.7 \text{ mA}$ 

(3)  $I_B = 10.4 \text{ mA}$ 

(4)  $I_B = 9.1 \text{ mA}$ 

(5)  $I_B = 7.8 \text{ mA}$ 

(6)  $I_B = 6.5 \text{ mA}$ 

(7)  $I_B = 5.2 \text{ mA}$ 

(8)  $I_B = 3.9 \text{ mA}$ 

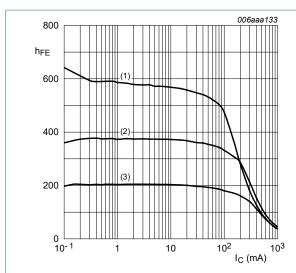
(9)  $I_B = 2.6 \text{ mA}$ 

 $(10) I_B = 1.3 mA$ 

Fig. 11. BC817-25W: Collector current as a function of collector-emitter voltage; typical values

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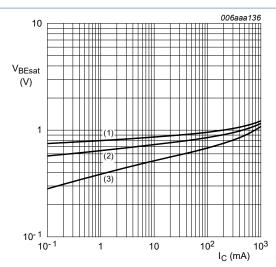
$$V_{CE} = 1 V$$

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

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

(3) 
$$T_{amb} = -55 \, ^{\circ}C$$

Fig. 12. BC817-40W: DC current gain as a function of collector current; typical values

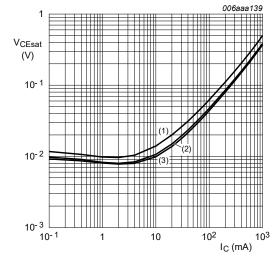


(1) 
$$T_{amb} = -55 \, ^{\circ}C$$

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

(3) 
$$T_{amb} = 150 \, ^{\circ}C$$

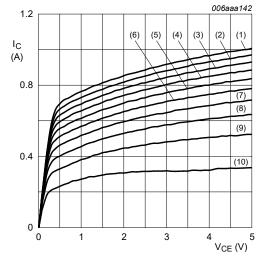
Fig. 13. BC817-40W: Base-emitter saturation voltage as a function of collector current; typical values



IC/IB = 10

(3) 
$$T_{amb} = -55 \, ^{\circ}C$$

Fig. 14. BC817-40W: Collector-emitter saturation voltage as a function of collector current; typical values



T<sub>amb</sub> = 25 °C

 $(1) I_B = 12.0 \text{ mA}$ 

 $(2) I_B = 10.8 \text{ mA}$ 

 $(3) I_B = 9.6 \text{ mA}$ 

 $(4) I_B = 8.4 \text{ mA}$ 

 $(5) I_B = 7.2 \text{ mA}$ 

(6)  $I_B = 6.0 \text{ mA}$ 

 $(7) I_B = 4.8 \text{ mA}$ 

(8)  $I_B = 3.6 \text{ mA}$ 

(9)  $I_B = 2.4 \text{ mA}$ 

 $(10) I_B = 1.2 mA$ 

Fig. 15. BC817-40W: Collector current as a function of collector-emitter voltage; typical values

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## 11. Package outline

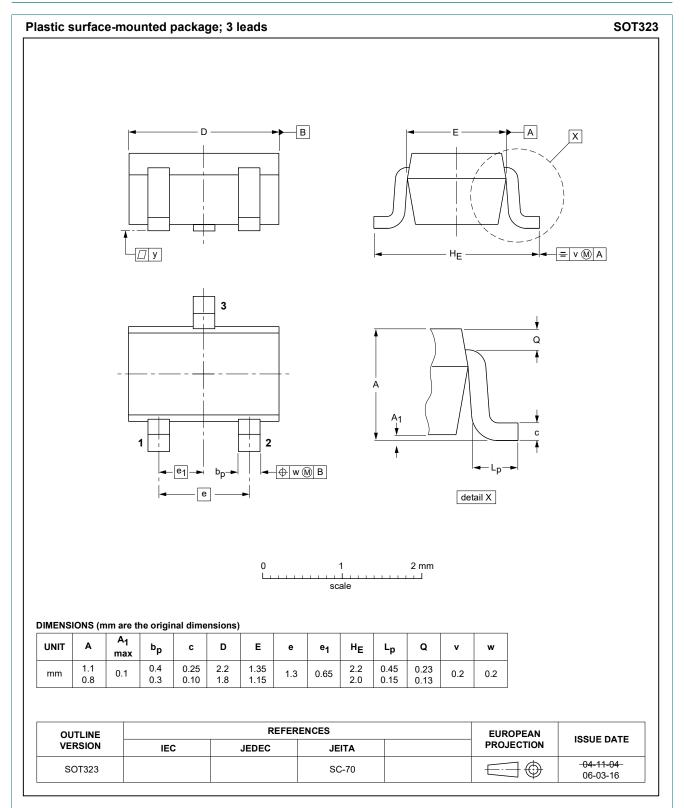
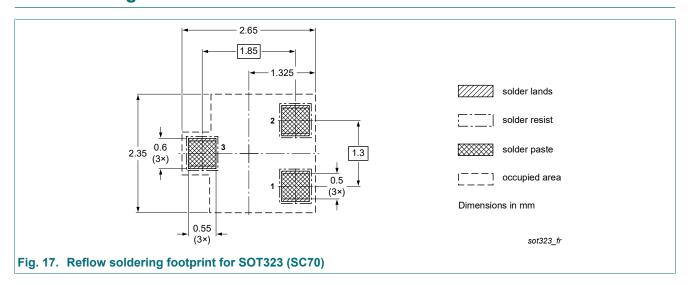


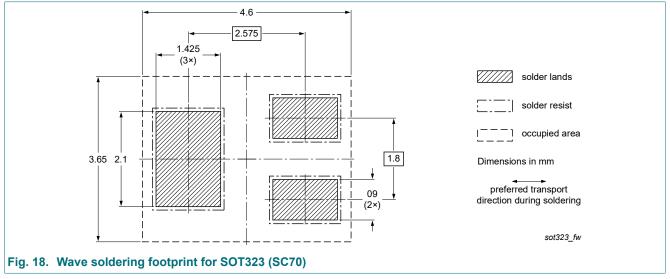
Fig. 16. Package outline SOT323 (SC70)

Nexperia BC817W series

#### 45 V, 500 mA NPN general-purpose transistors

## 12. Soldering





## 13. Revision history

#### Table 9. Revision history

Table 3. Revision history	I			I -		
Data sheet ID	Release date	Data sheet status	Change notice	Supersedes		
BC817W_SER v.8	20220701	Product data sheet	-	BC817W_SER v.7		
Modifications:	<ul> <li>Product changed to non-automotive qualification. Please refer to nexperia.com f automotive (-Q) product alternative(s).</li> </ul>					
BC817W_SER v.7	20180615	Product data sheet	-	BC817_BC817W_BC327 v.6		
BC817_BC817W_BC337 v.6	20091117	Product data sheet	-	BC817_BC817W_BC337 v.5		
BC817_BC817W_BC337 v.5	20050221	Product data sheet	-	BC817 v.4 BC817W v.4 BC337 v.3		
BC817 v.4	20040116	Product Specification	-	BC817 v.3		
BC817W_SER v.4	19990518	Product Specification	-	BC817W_SER v.3		
BC337 v.3	19990415	Product Specification	-	BC337_338_CNV v.2		

## 14. Legal information

#### 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.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
- 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 <a href="https://www.nexperia.com">https://www.nexperia.com</a>.

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