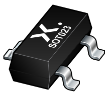


BC817KH-Q series

45 V, 500 mA NPN general-purpose transistors

Rev. 1 — 18 October 2023 | Product data sheet

1. General description

NPN general-purpose transistors in a small SOT23 Surface-Mounted Device (SMD) plastic package.

Table 1. Product overview

Type number	Package		PNP complement:
	Nexperia	JEDEC	
BC817K-16H-Q	SOT23	TO-236AB	BC807-16H-Q
BC817K-25H-Q			BC807-25H-Q
BC817K-40H-Q			BC807-40H-Q

2. Features and benefits

- Three current gain selections
- High power dissipation capability
- High-temperature applications up to 175 °C
- Qualified according to AEC-Q101 and recommended for use in automotive applications

3. Applications

- General-purpose switching and amplification

4. Quick reference data

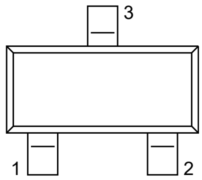
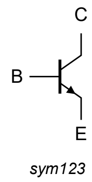
Table 2. Quick reference data

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
V_{CEO}	collector-emitter voltage	open base		-	-	45	V
I_C	collector current	T_{amb} = 25 °C		-	-	500	mA
I_{CM}	peak collector current	single pulse; t_p ≤ 1 ms; T_{amb} = 25 °C		-	-	1	A
h_{FE}	DC current gain						
	BC817K-16H-Q	V_{CE} = 1 V; I_C = 100 mA ; T_{amb} = 25 °C	[1]	100	-	250	
	BC817K-25H-Q		[1]	160	-	400	
	BC817K-40H-Q		[1]	250	-	600	

[1] pulsed; t_p ≤ 300 μs; δ ≤ 0.02

5. Pinning information

Table 3. Pinning

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	B	base	 SOT23	
2	E	emitter		
3	C	collector		

6. Ordering information

Table 4. Ordering information

Type number	Package		
	Name	Description	Version
BC817K-16H-Q	SOT23	plastic, surface-mounted package; 3 leads	SOT23
BC817K-25H-Q			
BC817K-40H-Q			

7. Marking

Table 5. Marking

Type number		Marking code [1]
BC817K-16H-Q	[1]	%HD
BC817K-25H-Q	[1]	%HE
BC817K-40H-Q	[1]	%HF

[1] % = placeholder for manufacturing site code

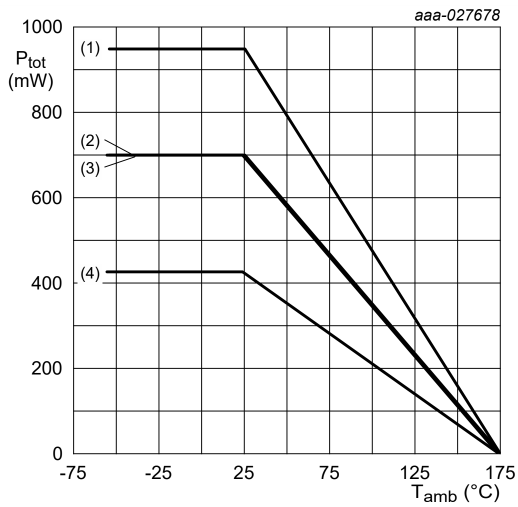
8. Limiting values

Table 6. Limiting values

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

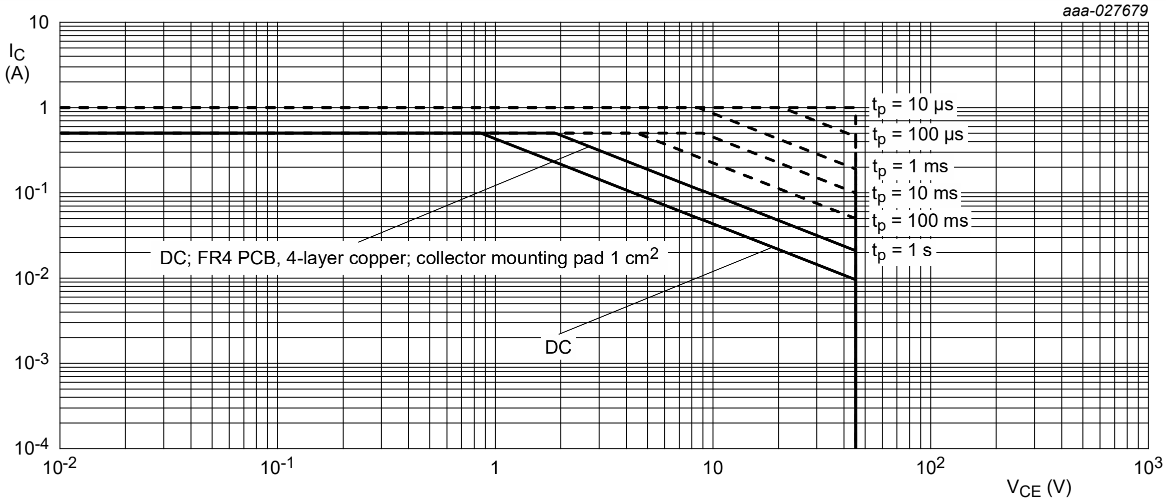
Symbol	Parameter	Conditions		Min	Max	Unit
V_{CBO}	collector-base voltage	open emitter		-	50	V
V_{CEO}	collector-emitter voltage	open base		-	45	V
V_{EBO}	emitter-base voltage	open collector		-	7	V
I_C	collector current			-	500	mA
I_{CM}	peak collector current	single pulse; $t_p \leq 1$ ms		-	1	A
I_{BM}	peak base current	single pulse; $t_p \leq 1$ ms		-	200	mA
P_{tot}	total power dissipation	$T_{amb} \leq 25$ °C	[1]	-	425	mW
			[2]	-	700	mW
			[3]	-	700	mW
			[4]	-	950	mW
T_j	junction temperature			-	175	°C
T_{amb}	ambient temperature			-55	175	°C
T_{stg}	storage temperature			-65	175	°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^2.
[3] Device mounted on an FR4 PCB; 4-layer copper; tin plated and standard footprint.
[4] Device mounted on an FR4 PCB; 4-layer copper; tin-plated; mounting pad for collector 1 cm^2.



(1) FR4 PCB; 4-layer copper, 1 cm^2
(2) FR4 PCB; single-sided copper, 1 cm^2
(3) FR4 PCB; 4-layer copper; standard footprint
(4) FR4 PCB; single-sided copper; standard footprint

Fig. 1. Power derating curves



FR4 PCB; single-sided copper; standard footprint; single pulse

T_{amb} = 25 °C

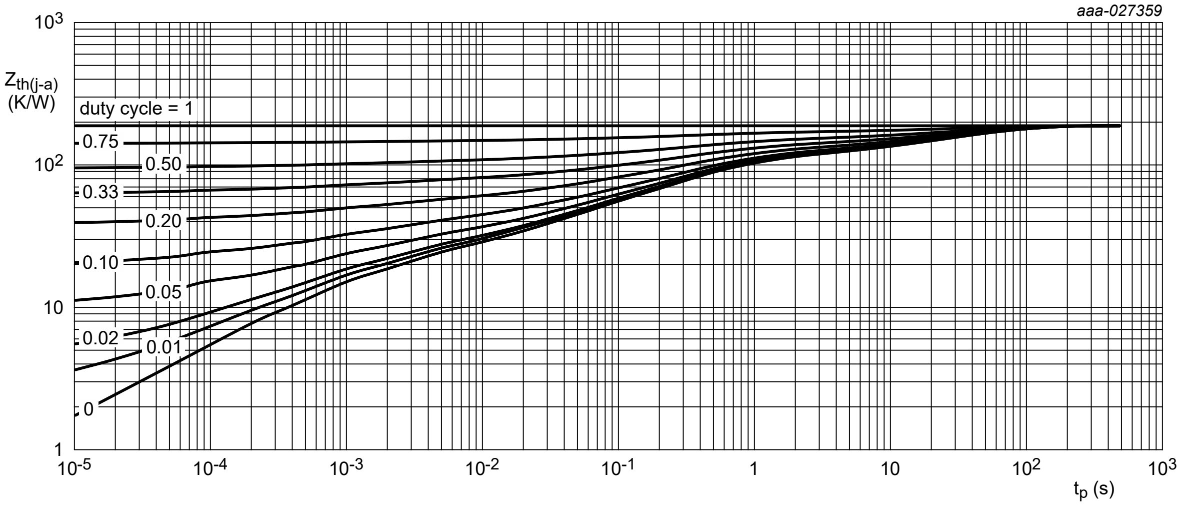
Fig. 2. Safe operating area; junction to ambient; continous and peak collector currents as a funtion of collector-emitter voltage

9. Thermal characteristics

Table 7. Thermal characteristics

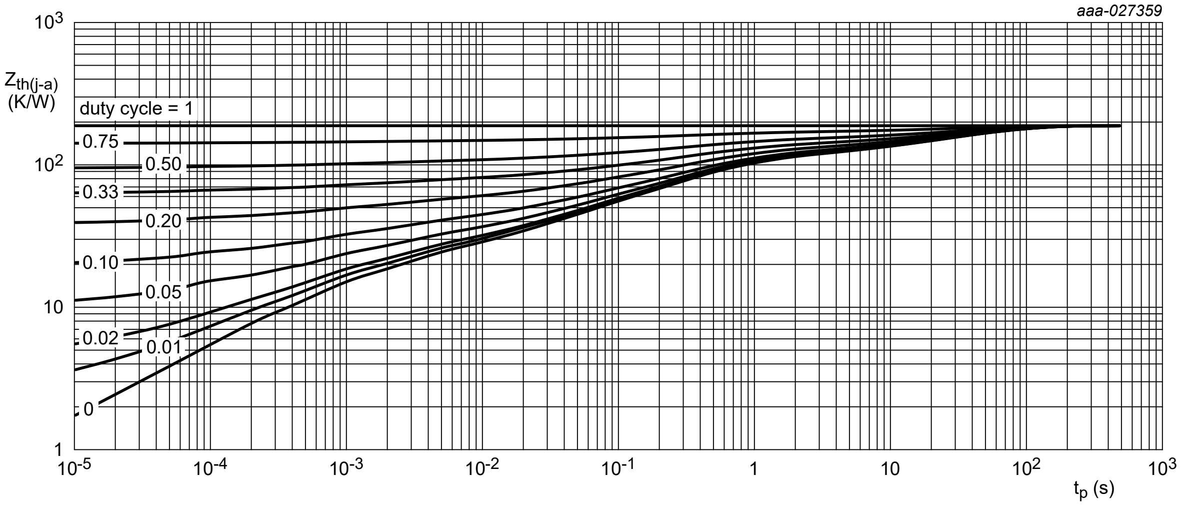
Symbol	Parameter	Conditions		Min	Typ	Max	Unit
$R_{th(j-a)}$	thermal resistance from junction to ambient	in free air; T_{amb} = 25 °C	[1]	-	-	353	K/W
			[2]	-	-	215	K/W
			[3]	-	-	215	K/W
			[4]	-	-	158	K/W
$R_{th(j-sp)}$	thermal resistance from junction to solder point			-	-	60	K/W

[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^2.
[3] Device mounted on an FR4 PCB; 4-layer copper; tin-plated and standard footprint.
[4] Device mounted on an FR4 PCB; 4-layer copper; tin-plated; mounting pad for collector 1 cm^2.



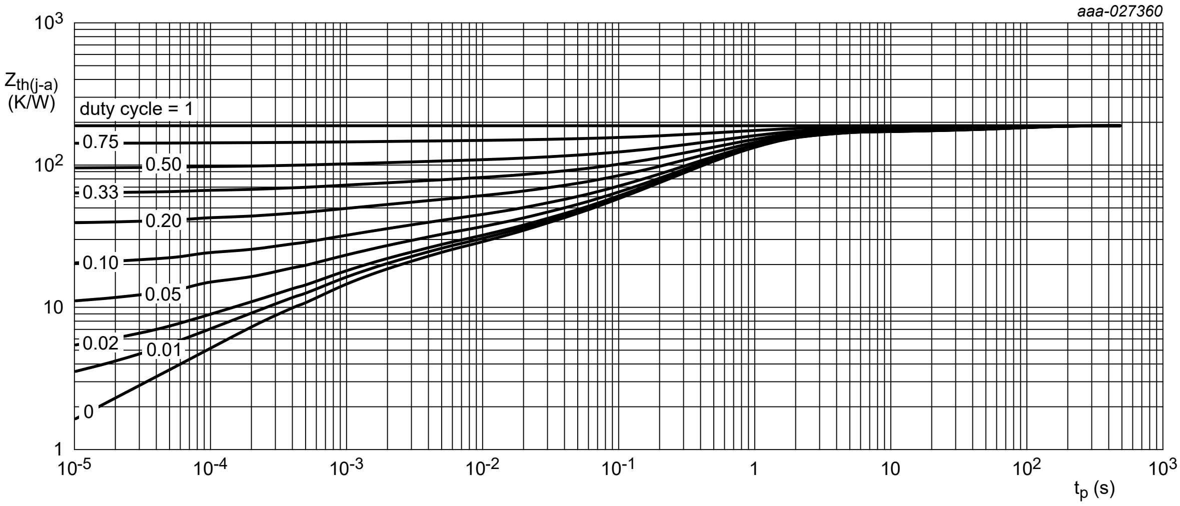
FR4 PCB; single-sided copper; tin-plated and standard footprint

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



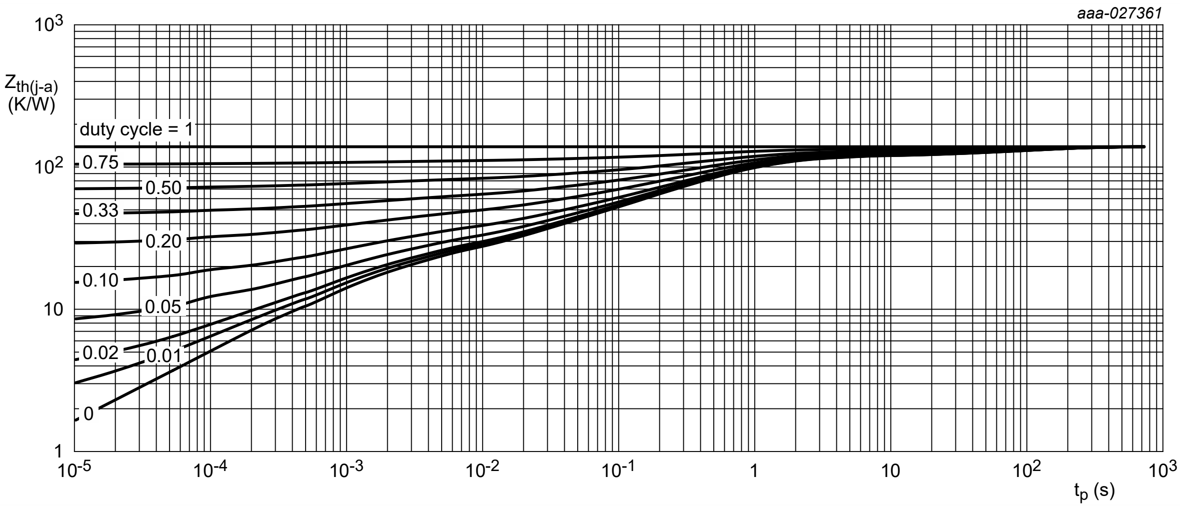
FR4 PCB; single-sided copper; tin-plated; mounting pad for collector 1 cm^2

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



FR4 PCB; 4-layer copper; tin-plated and standard footprint

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



FR4 PCB; 4-layer copper; tin-plated; mounting pad for collector 1 cm^2

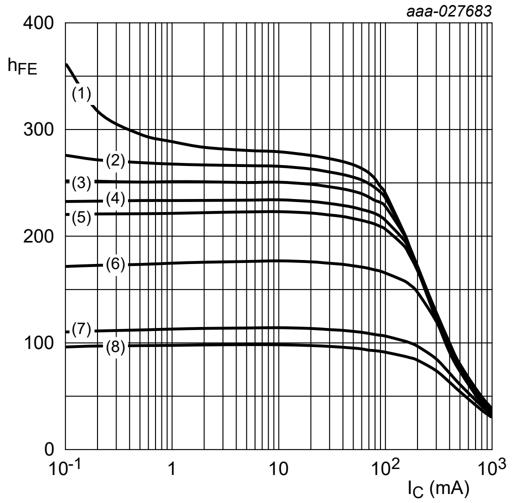
Fig. 6. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

10. Characteristics

Table 8. Characteristics

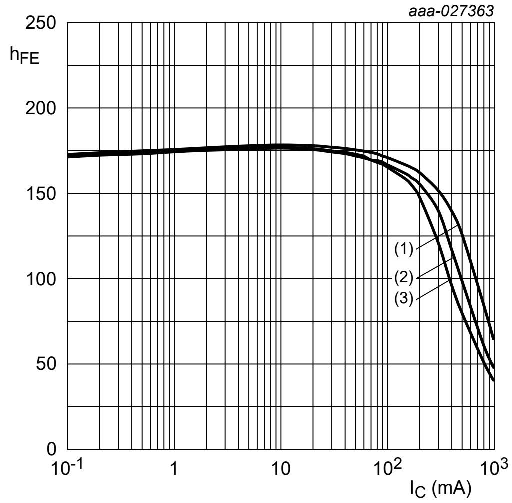
Symbol	Parameter	Conditions		Min	Typ	Max	Unit
$V_{(BR)CBO}$	collector-base breakdown voltage	I_C = 100 μA; I_E = 0 A; T_{amb} = 25 °C		50	-		V
$V_{(BR)CEO}$	collector-emitter breakdown voltage	I_C = 10 mA; I_B = 0 A; T_{amb} = 25 °C		45	-		V
$V_{(BR)EBO}$	emitter-base breakdown voltage	I_E = 100 μA; I_C = 0 A; T_{amb} = 25 °C		7	-		V
I_{CBO}	collector-base cut-off current	V_{CB} = 25 V; I_E = 0 A; T_{amb} = 25 °C		-	-	100	nA
		V_{CB} = 25 V; I_E = 0 A; T_j = 150 °C		-	-	5	μA
I_{EBO}	emitter-base cut-off current	V_{EB} = 5 V; I_C = 0 A; T_{amb} = 25 °C		-	-	100	nA
h_{FE}	DC current gain						
	BC817K-16H-Q	V_{CE} = 1 V; I_C = 100 mA; T_{amb} = 25 °C	[1]	100	-	250	
	BC817K-25H-Q		[1]	160	-	400	
	BC817K-40H-Q		[1]	250	-	600	
	BC817K-16H-Q BC817K-25H-Q BC817K-40H-Q	V_{CE} = 1 V; I_C = 500 mA; T_{amb} = 25 °C	[1]	40	-	-	
V_{CEsat}	collector-emitter saturation voltage	I_C = 500 mA; I_B = 50 mA; T_{amb} = 25 °C	[1]	-	-	700	mV
V_{BEsat}	base-emitter saturation voltage	I_C = 500 mA; I_B = 50 mA; T_{amb} = 25 °C	[1]	-	-	1.2	V
V_{BE}	base-emitter voltage	V_{CE} = 1 V; I_C = 500 mA; T_{amb} = 25 °C	[1]	-	-	1.2	V
f_T	transition frequency	V_{CE} = 5 V; I_C = 10 mA; f = 100 MHz; T_{amb} = 25 °C		100	-	-	MHz
C_c	collector capacitance	V_{CB} = 10 V; I_E = i_e = 0 A; f = 1 MHz; T_{amb} = 25 °C		-	3	-	pF
C_e	emitter capacitance	V_{EB} = 0.5 V; I_C = i_c = 0 A; f = 1 MHz; T_{amb} = 25 °C					
	BC817K-16H-Q			-	44	-	pF
	BC817K-25H-Q			-	39	-	pF
	BC817K-40H-Q			-	39	-	pF

[1] pulsed; $t_p \leq 300$ μs; $\delta \leq 0.02$



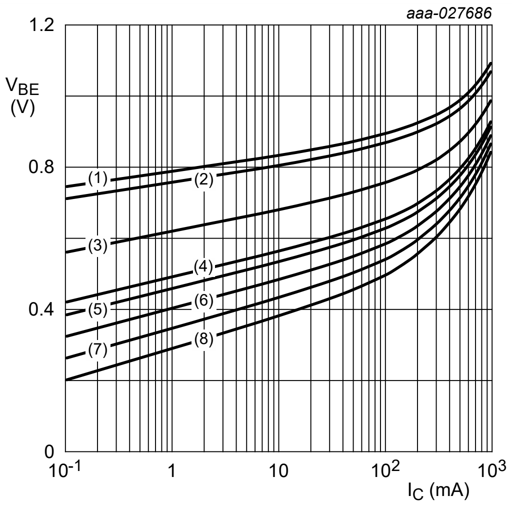
V_{CE} = 1 V
(1) T_{amb} = 175 °C
(2) T_{amb} = 150 °C
(3) T_{amb} = 125 °C
(4) T_{amb} = 100 °C
(5) T_{amb} = 85 °C
(6) T_{amb} = 25 °C
(7) T_{amb} = -40 °C
(8) T_{amb} = -55 °C

Fig. 7. BC817K-16H-Q: DC current gain as a function of collector current; typical values



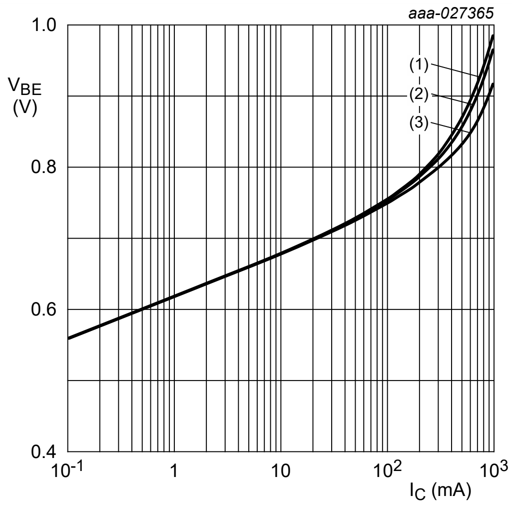
T_{amb} = 25 °C
(1) V_{CE} = 5 V
(2) V_{CE} = 2 V
(3) V_{CE} = 1 V

Fig. 8. BC817K-16H-Q: DC current gain as a function of collector current; typical values



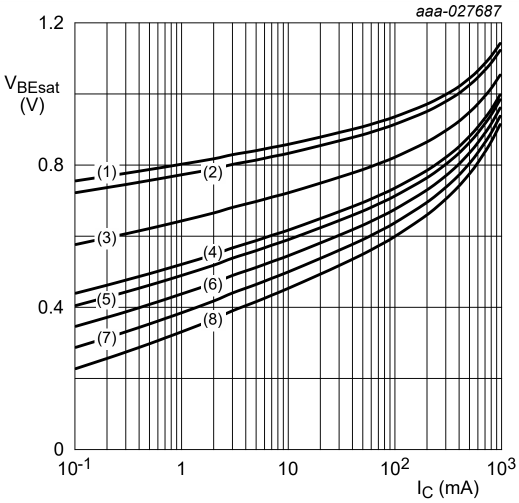
V_{CE} = 1 V
(1) T_{amb} = -55 °C
(2) T_{amb} = -40 °C
(3) T_{amb} = 25 °C
(4) T_{amb} = 85 °C
(5) T_{amb} = 100 °C
(6) T_{amb} = 125 °C
(7) T_{amb} = 150 °C
(8) T_{amb} = 175 °C

Fig. 9. BC817K-16H-Q: Base-emitter voltage as a function of collector current; typical values



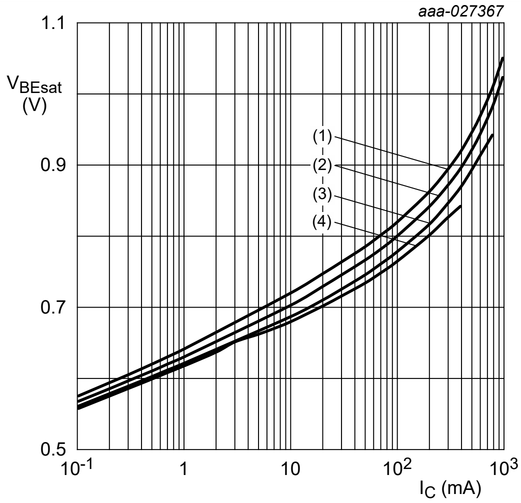
T_{amb} = 25 °C
(1) V_{CE} = 1 V
(2) V_{CE} = 2 V
(3) V_{CE} = 5 V

Fig. 10. BC817K-16H-Q: Base-emitter voltage as a function of collector current; typical values



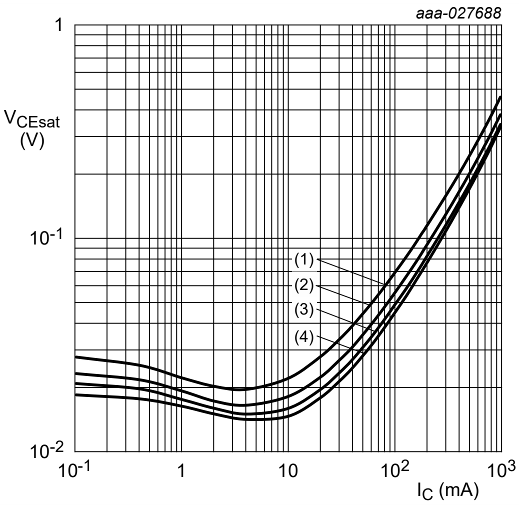
IC/IB = 10
(1) T_{amb} = -55 °C
(2) T_{amb} = -40 °C
(3) T_{amb} = 25 °C
(4) T_{amb} = 85 °C
(5) T_{amb} = 100 °C
(6) T_{amb} = 125 °C
(7) T_{amb} = 150 °C
(8) T_{amb} = 175 °C

Fig. 11. BC817K-16H-Q: Base-emitter saturation voltage as a function of collector current; typical values



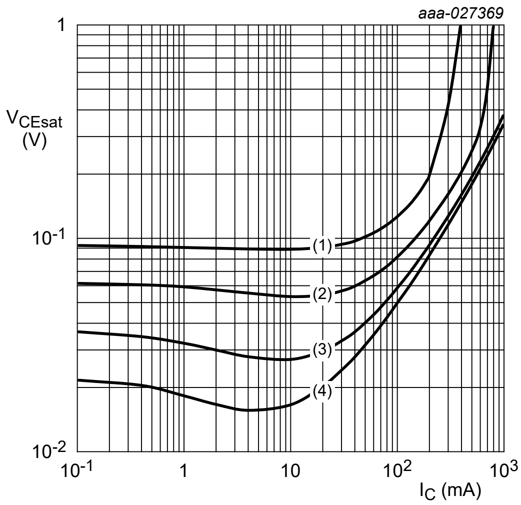
T_{amb} = 25 °C
(1) IC/IB = 10
(2) IC/IB = 20
(3) IC/IB = 50
(4) IC/IB = 100

Fig. 12. BC817K-16H-Q: Base-emitter saturation voltage as a function of collector current; typical values



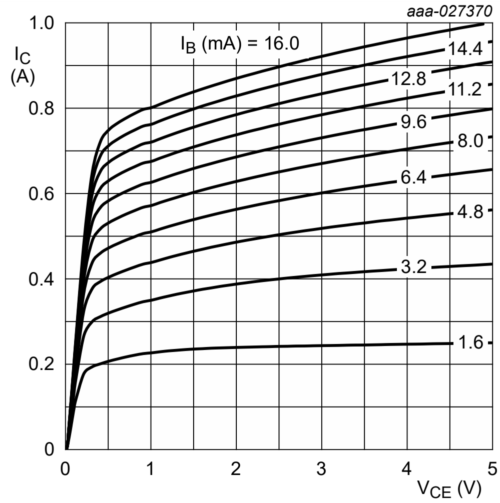
I_C/I_B = 10
(1) T_{amb} = 175 °C
(2) T_{amb} = 85 °C
(3) T_{amb} = 25 °C
(4) T_{amb} = -40 °C

Fig. 13. BC817K-16H-Q: Collector-emitter saturation voltage as a function of collector current; typical values



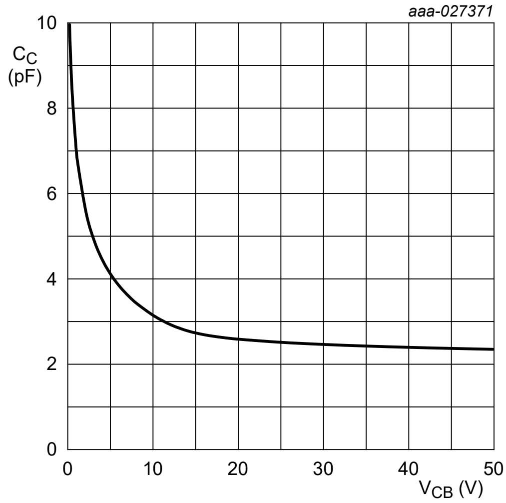
T_{amb} = 25 °C
(1) IC/IB = 100
(2) IC/IB = 50
(3) IC/IB = 20
(4) IC/IB = 10

Fig. 14. BC817K-16H-Q: Collector-emitter saturation voltage as a function of collector current; typical values



T_{amb} = 25 °C

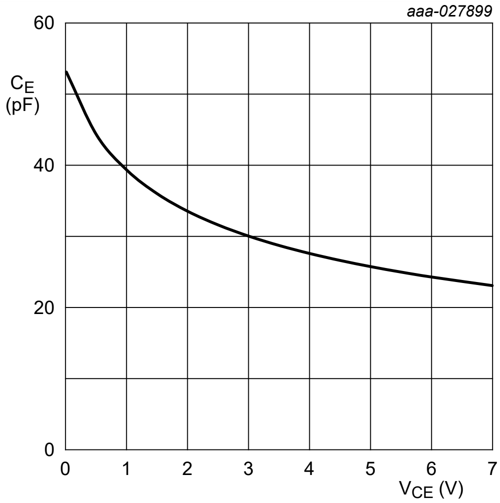
Fig. 15. BC817K-16H-Q: Collector current as a function of collector-emitter voltage; typical values



f = 1 MHz

T_{amb} = 25 °C

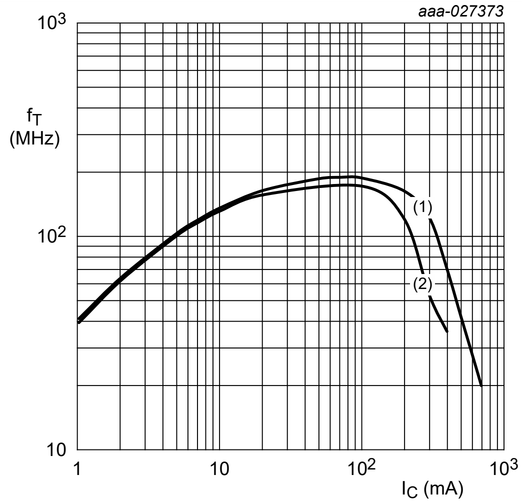
Fig. 16. BC817K-16H-Q: Collector capacitance as a function of collector-base voltage; typical values



f = 1 MHz

T_{amb} = 25 °C

Fig. 17. BC817K-16H-Q: Emitter capacitance as a function of emitter-base voltage; typical values



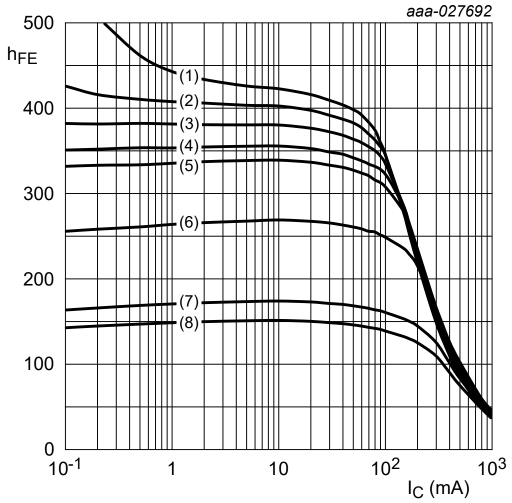
f = 100 MHz

T_{amb} = 25 °C

(1) V_{CE} = 5 V

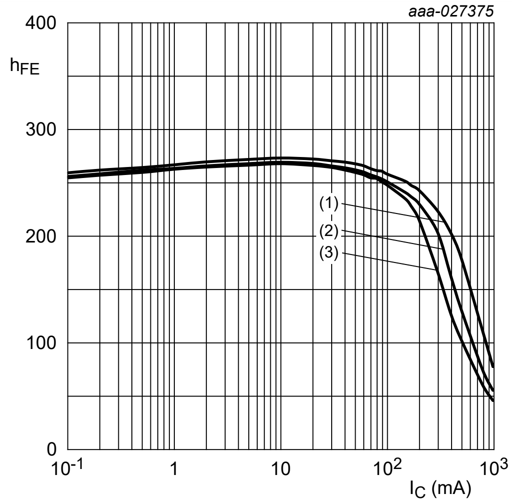
(2) V_{CE} = 1 V

Fig. 18. BC817K-16H-Q: Transition frequency as a function of collector current; typical values



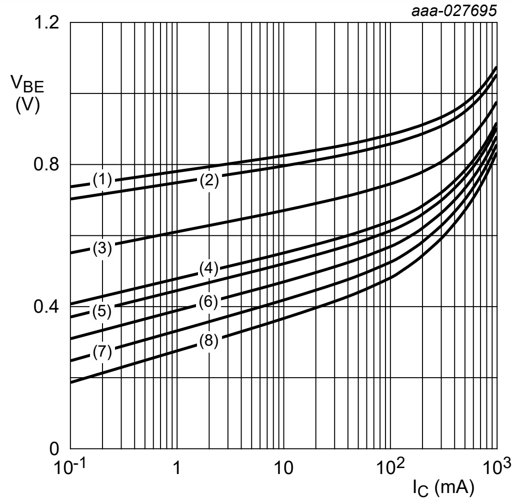
V_{CE} = 1 V
(1) T_{amb} = 175 °C
(2) T_{amb} = 150 °C
(3) T_{amb} = 125 °C
(4) T_{amb} = 100 °C
(5) T_{amb} = 85 °C
(6) T_{amb} = 25 °C
(7) T_{amb} = -40 °C
(8) T_{amb} = -55 °C

Fig. 19. BC817K-25H-Q: DC current gain as a function of collector current; typical values



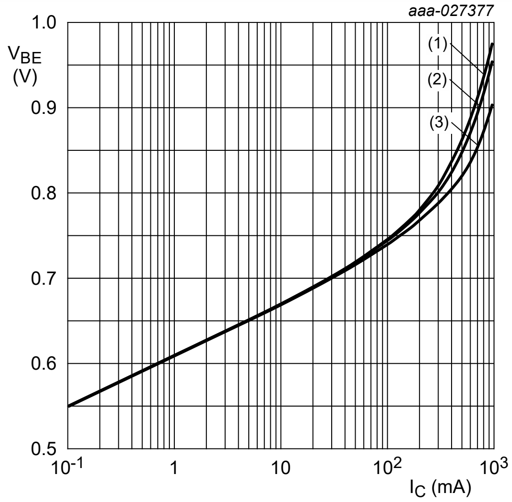
T_{amb} = 25 °C
(1) V_{CE} = 5 V
(2) V_{CE} = 2 V
(3) V_{CE} = 1 V

Fig. 20. BC817K-25H-Q: DC current gain as a function of collector current; typical values



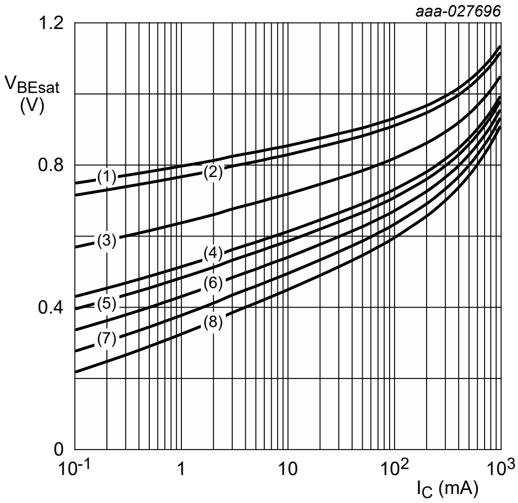
V_{CE} = 1 V
(1) T_{amb} = -55 °C
(2) T_{amb} = -40 °C
(3) T_{amb} = 25 °C
(4) T_{amb} = 85 °C
(5) T_{amb} = 100 °C
(6) T_{amb} = 125 °C
(7) T_{amb} = 150 °C
(8) T_{amb} = 175 °C

Fig. 21. BC817K-25H-Q: Base-emitter voltage as a function of collector current; typical values



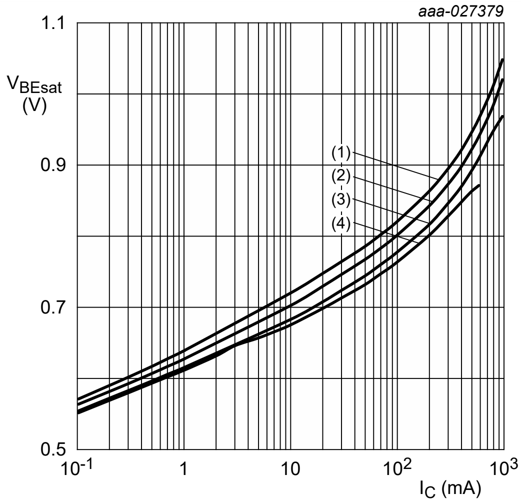
T_{amb} = 25 °C
(1) V_{CE} = 1 V
(2) V_{CE} = 2 V
(3) V_{CE} = 5 V

Fig. 22. BC817K-25H-Q: Base-emitter voltage as a function of collector current; typical values



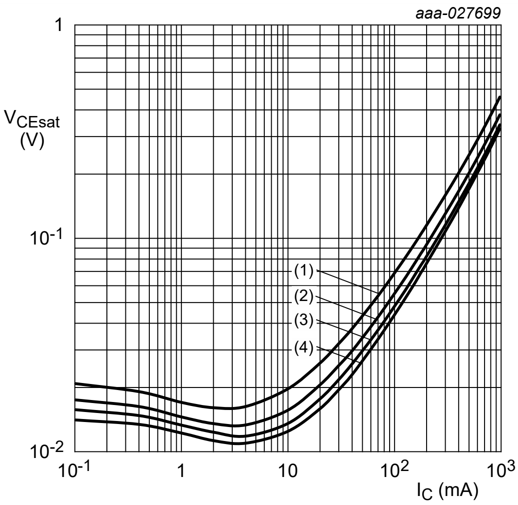
IC/IB = 10
(1) T_{amb} = -55 °C
(2) T_{amb} = -40 °C
(3) T_{amb} = 25 °C
(4) T_{amb} = 85 °C
(5) T_{amb} = 100 °C
(6) T_{amb} = 125 °C
(7) T_{amb} = 150 °C
(8) T_{amb} = 175 °C

Fig. 23. BC817K-25H-Q: Base-emitter saturation voltage as a function of collector current; typical values



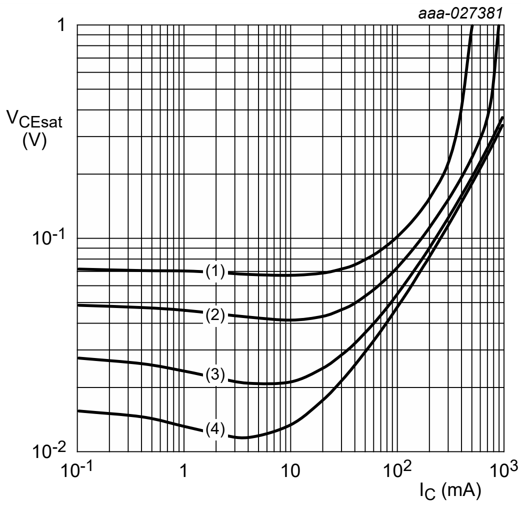
T_{amb} = 25 °C
(1) IC/IB = 10
(2) IC/IB = 20
(3) IC/IB = 50
(4) IC/IB = 100

Fig. 24. BC817K-25H-Q: Base-emitter saturation voltage as a function of collector current; typical values



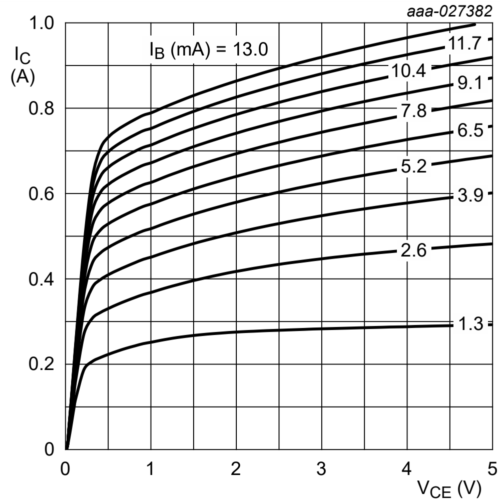
I_C/I_B = 10
(1) T_{amb} = 175 °C
(2) T_{amb} = 85 °C
(3) T_{amb} = 25 °C
(4) T_{amb} = -40 °C

Fig. 25. BC817K-25H-Q: Collector-emitter saturation voltage as a function of collector current; typical values



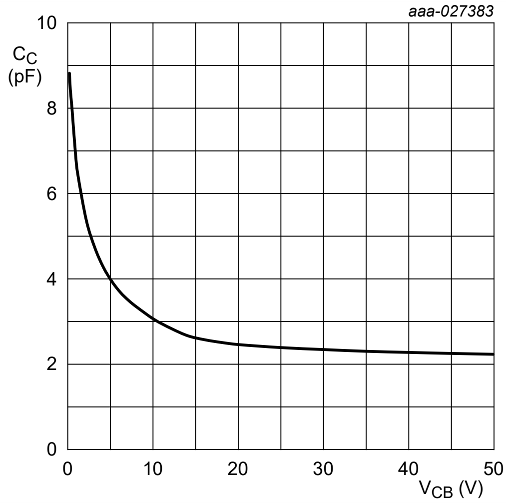
T_{amb} = 25 °C
(1) IC/IB = 100
(2) IC/IB = 50
(3) IC/IB = 20
(4) IC/IB = 10

Fig. 26. BC817K-25H-Q: Collector-emitter saturation voltage as a function of collector current; typical values



T_{amb} = 25 °C

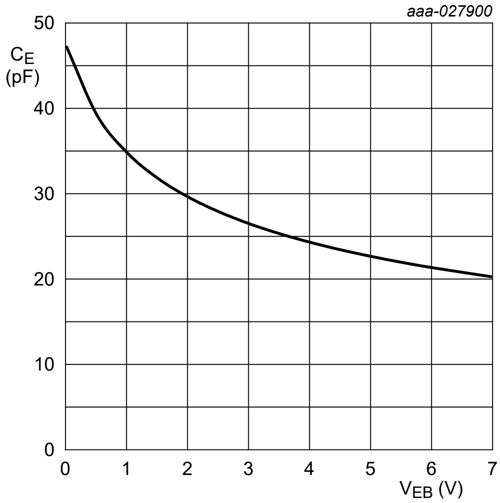
Fig. 27. BC817K-25H-Q: Collector current as a function of collector-emitter voltage; typical values



f = 1 MHz

T_{amb} = 25 °C

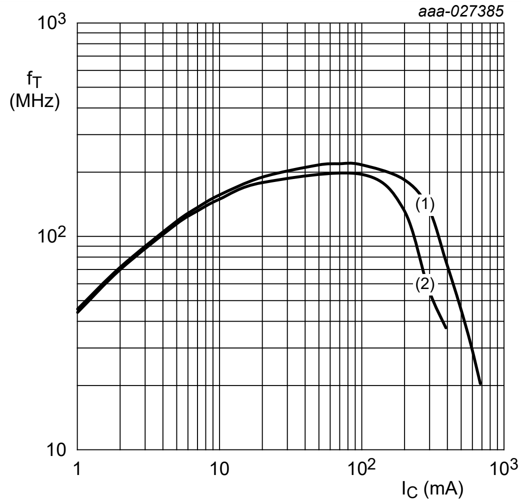
Fig. 28. BC817K-25H-Q: Collector capacitance as a function of collector-base voltage; typical values



f = 1 MHz

T_{amb} = 25 °C

Fig. 29. BC817K-25H-Q: Emitter capacitance as a function of emitter-base voltage; typical values



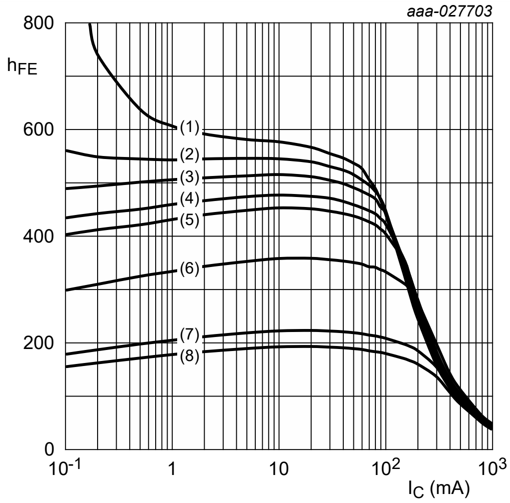
f = 100 MHz

T_{amb} = 25 °C

(1) V_{CE} = 5 V

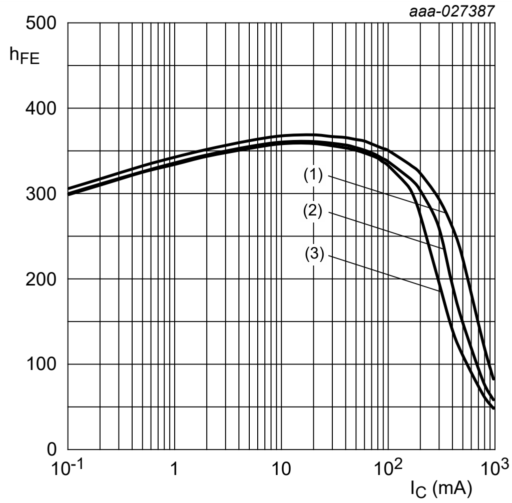
(2) V_{CE} = 1 V

Fig. 30. BC817K-25H-Q: Transition frequency as a function of collector current; typical values



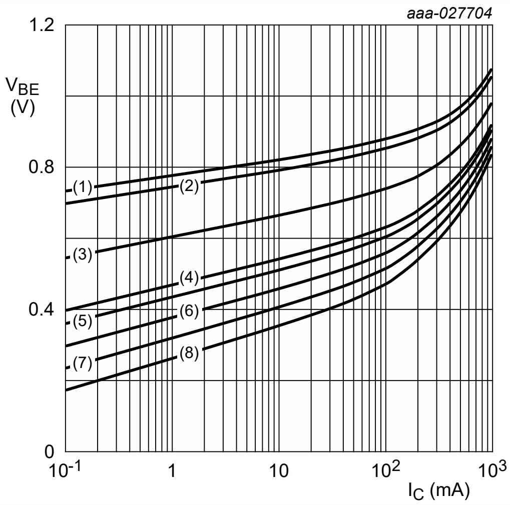
V_{CE} = 1 V
(1) T_{amb} = 175 °C
(2) T_{amb} = 150 °C
(3) T_{amb} = 125 °C
(4) T_{amb} = 100 °C
(5) T_{amb} = 85 °C
(6) T_{amb} = 25 °C
(7) T_{amb} = -40 °C
(8) T_{amb} = -55 °C

Fig. 31. BC817K-40H-Q: DC current gain as a function of collector current; typical values



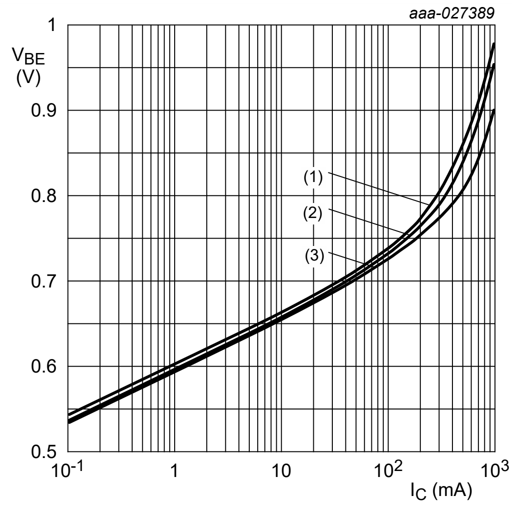
T_{amb} = 25 °C
(1) V_{CE} = 5 V
(2) V_{CE} = 2 V
(3) V_{CE} = 1 V

Fig. 32. BC817K-40H-Q: DC current gain as a function of collector current; typical values



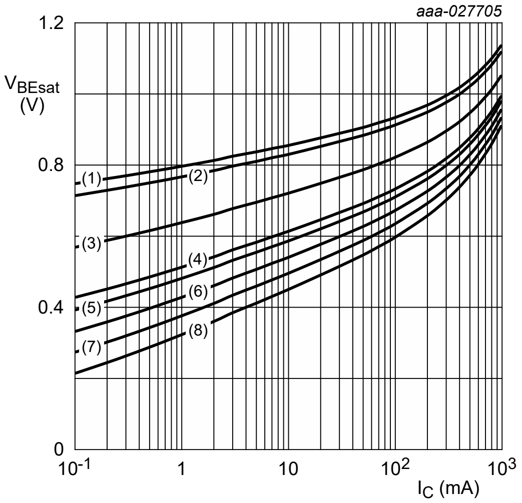
V_{CE} = 1 V
(1) T_{amb} = -55 °C
(2) T_{amb} = -40 °C
(3) T_{amb} = 25 °C
(4) T_{amb} = 85 °C
(5) T_{amb} = 100 °C
(6) T_{amb} = 125 °C
(7) T_{amb} = 150 °C
(8) T_{amb} = 175 °C

Fig. 33. BC817K-40H-Q: Base-emitter voltage as a function of collector current; typical values



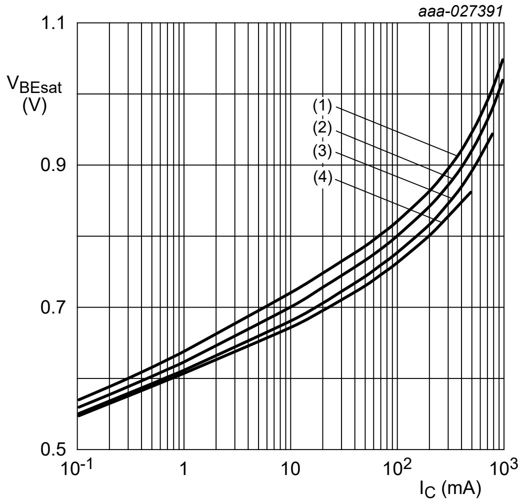
T_{amb} = 25 °C
(1) V_{CE} = 1 V
(2) V_{CE} = 2 V
(3) V_{CE} = 5 V

Fig. 34. BC817K-40H-Q: Base-emitter voltage as a function of collector current; typical values



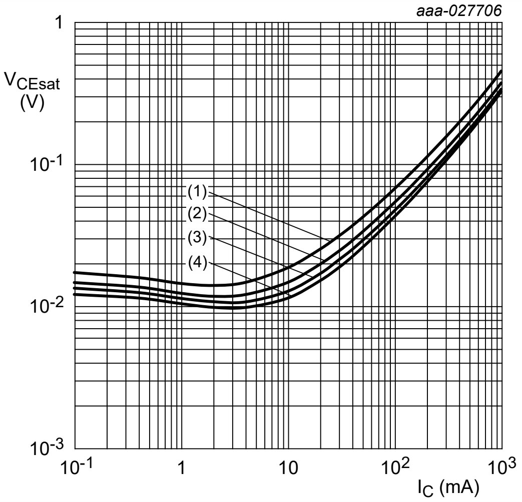
IC/IB = 10
(1) T_{amb} = -55 °C
(2) T_{amb} = -40 °C
(3) T_{amb} = 25 °C
(4) T_{amb} = 85 °C
(5) T_{amb} = 100 °C
(6) T_{amb} = 125 °C
(7) T_{amb} = 150 °C
(8) T_{amb} = 175 °C

Fig. 35. BC817K-40H-Q: Base-emitter saturation voltage as a function of collector current; typical values



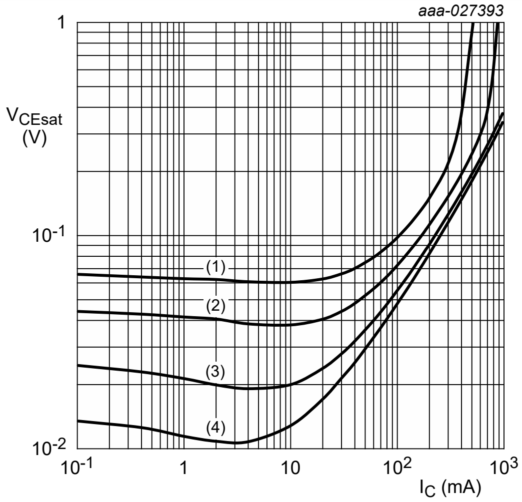
T_{amb} = 25 °C
(1) IC/IB = 10
(2) IC/IB = 20
(3) IC/IB = 50
(4) IC/IB = 100

Fig. 36. BC817K-40H-Q: Base-emitter saturation voltage as a function of collector current; typical values



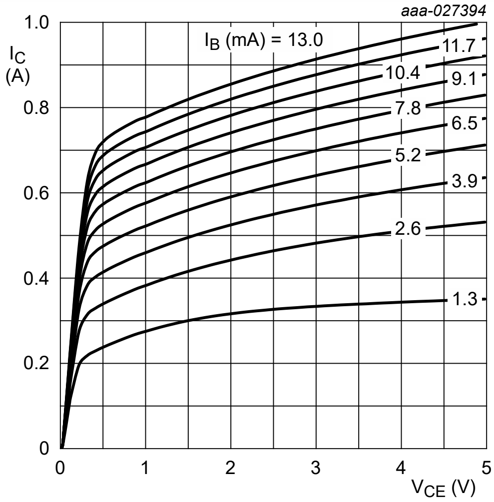
I_C/I_B = 10
(1) T_{amb} = 175 °C
(2) T_{amb} = 85 °C
(3) T_{amb} = 25 °C
(4) T_{amb} = -40 °C

Fig. 37. BC817K-40H-Q: Collector-emitter saturation voltage as a function of collector current; typical values



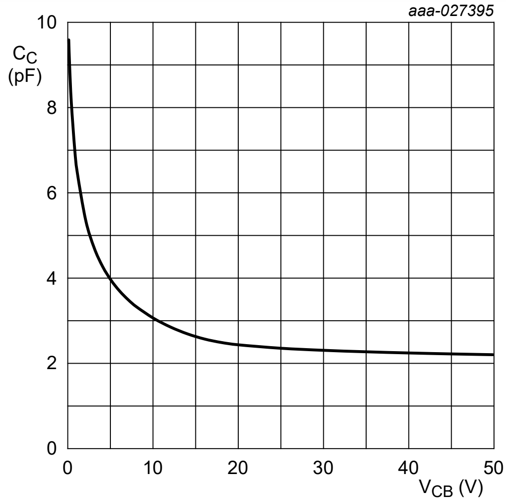
T_{amb} = 25 °C
(1) IC/IB = 100
(2) IC/IB = 50
(3) IC/IB = 20
(4) IC/IB = 10

Fig. 38. BC817K-40H-Q: Collector-emitter saturation voltage as a function of collector current; typical values



T_{amb} = 25 °C

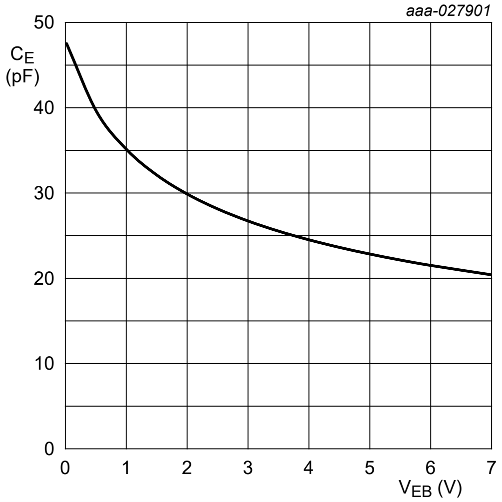
Fig. 39. BC817K-40H-Q: Collector current as a function of collector-emitter voltage; typical values



f = 1 MHz

T_{amb} = 25 °C

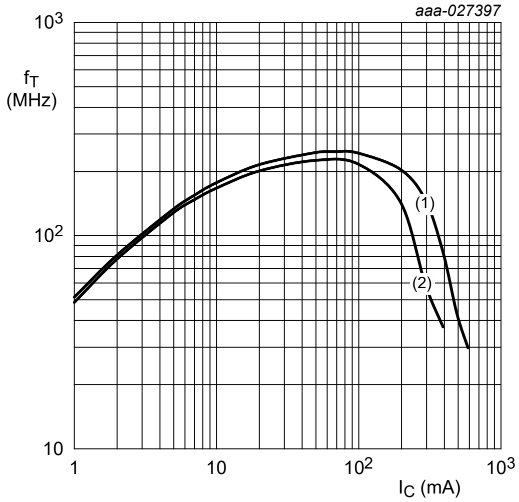
Fig. 40. BC817K-40H-Q: Collector capacitance as a function of collector-base voltage; typical values



f = 1 MHz

T_{amb} = 25 °C

Fig. 41. BC817K-40H-Q: Emitter capacitance as a function of emitter-base voltage; typical values



f = 100 MHz

T_{amb} = 25 °C

(1) V_{CE} = 5 V

(2) V_{CE} = 1 V

Fig. 42. BC817K-40H-Q: Transition frequency as a function of collector current; typical values

11. Test information

11.1. 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.

12. Package outline

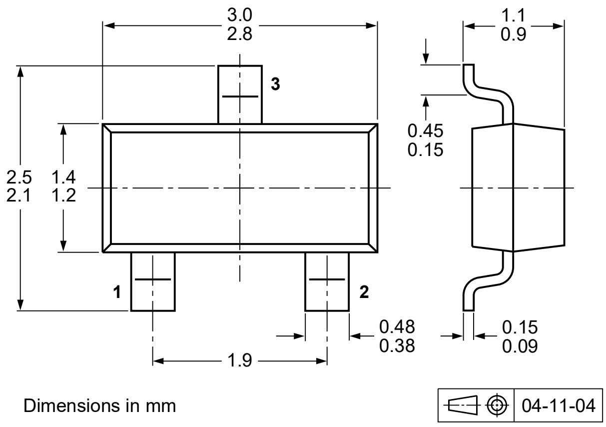


Fig. 43. Package outline SOT23

13. Soldering

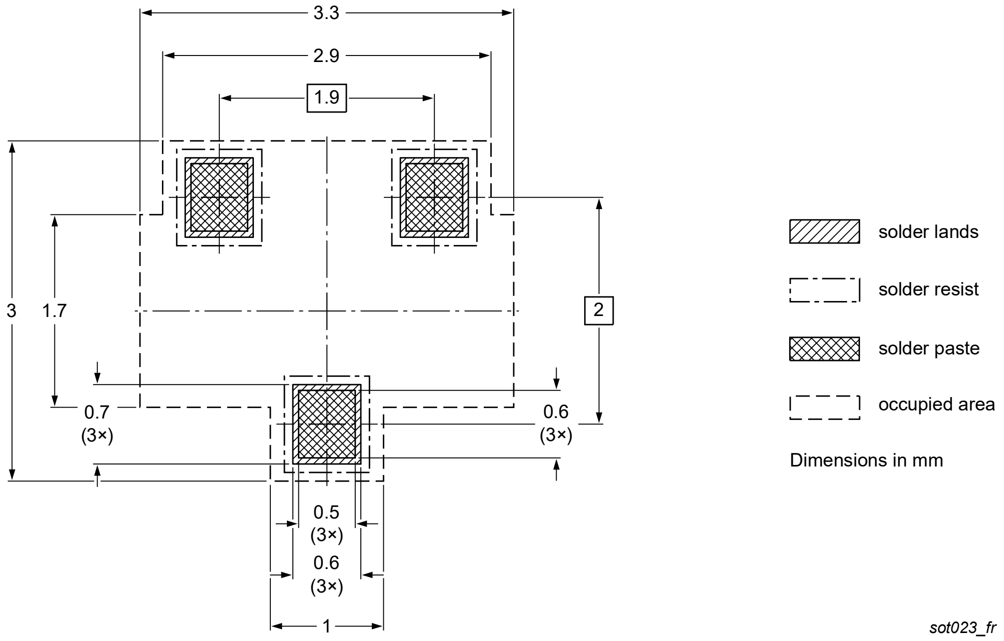


Fig. 44. Reflow soldering footprint for SOT23

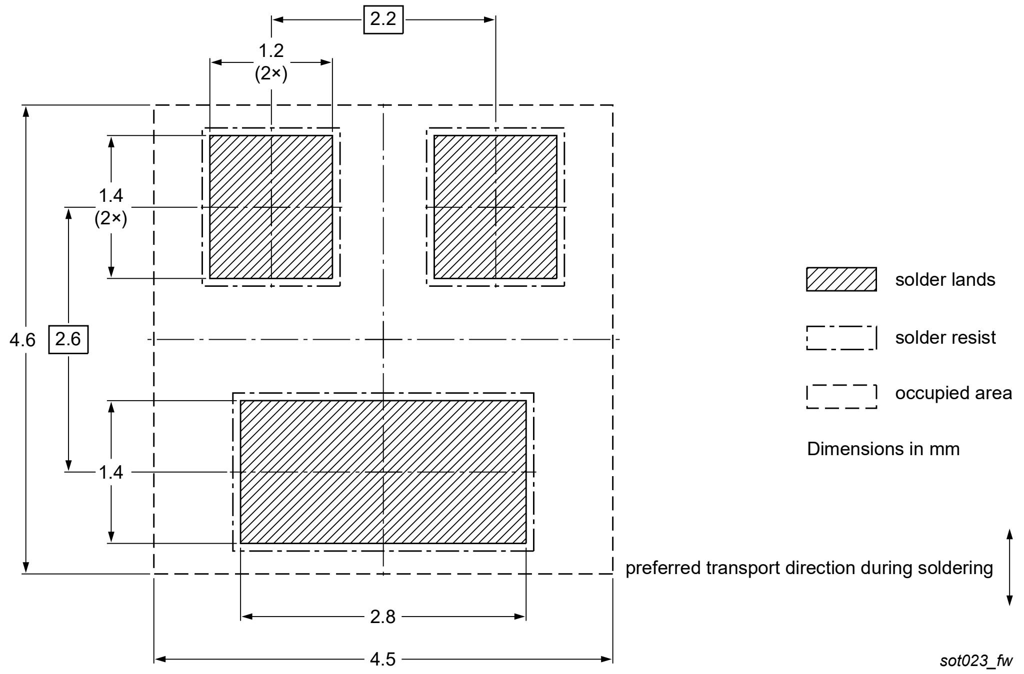


Fig. 45. Wave soldering footprint for SOT23

14. Revision history

Table 9. Revision history

Data sheet ID	Release date	Data sheet status	Change notice	Supersedes
BC817KH-Q_SER v.1	20231018	Product data sheet	-	-

15. 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.

[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 https://www.nexperia.com.

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Date of release: 18 October 2023

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