BC807-Q series

45 V, 500 mA PNP general-purpose transistors Rev. 1 — 4 June 2021

Product data sheet

1. General description

PNP general-purpose transistor in a small SOT23 (TO-236AB) Surface-Mounted Device (SMD) plastic package.

Table 1. Product overview

Type number	Package	NPN complement		
	Nexperia	JEDEC	JEITA	
BC807-Q	SOT23	TO-236AB	-	BC817-Q
BC807-16-Q				BC817-16-Q
BC807-25-Q				BC817-25-Q
BC807-40-Q				BC817-40-Q

2. Features and benefits

- High current
- Three current gain selections
- 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	Тур	Max	Unit
V_{CEO}	collector-emitter voltage	open base; T _{amb} = 25 °C		-	-	-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	Α
h _{FE}	DC current gain					•	
	BC807-Q	V_{CE} = -1 V; I_{C} = -100 mA T_{amb} = 25 °C	[1]	100	-	600	
	BC807-16-Q		[1]	100	-	250	
	BC807-25-Q		[1]	160	-	400	
ı	BC807-40-Q		[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	3	C
2	Е	emitter		В
3	С	collector		
				E sym132
			1 2	39111132

6. Ordering information

Table 4. Ordering information

Type number	Package						
	Name	Description	Version				
BC807-Q	TO-236AB	Plastic surface-mounted package; 3 leads	SOT23				
BC807-16-Q							
BC807-25-Q							
BC807-40-Q							

7. Marking

Table 5. Marking

Type number	Marking code[1]
BC807-Q	5D%
BC807-16-Q	5A%
BC807-25-Q	5B%
BC807-40-Q	5C%

[1] % = placeholder for manufacturing site code

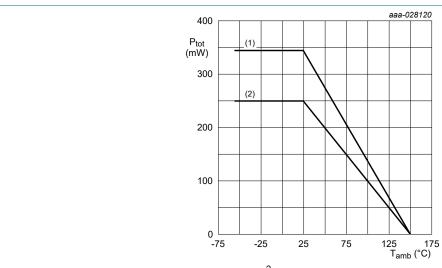
8. Limiting values

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 _{amb} = 25 °C	-	-50	V
V_{CEO}	collector-emitter voltage	open base; T _{amb} = 25 °C	-	-45	V
V _{EBO}	emitter-base voltage	open collector; T _{amb} = 25 °C	-	-5	V
Ic	collector current	T _{amb} = 25 °C	-	-500	mA
I _{CM}	peak collector current	single pulse; t _p ≤ 1 ms; T _{amb} = 25 °C	-	-1	Α
I _{BM}	peak base current	single pulse; t _p ≤ 1 ms; T _{amb} = 25 °C	-	-200	mA
P _{tot}	total power dissipation	T _{amb} ≤ 25 °C [1		250	mW
		[3		345	mW
Tj	junction temperature		-	150	°C
T _{amb}	ambient temperature		-65	150	°C
T _{stg}	storage temperature		-65	150	°C

- [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; mounting pad for collector 1 cm₂.



- (1) FFR4 PCB, single-sided copper; 1 cm²
- (2) FR4 PCB, single-sided copper; standard footprint

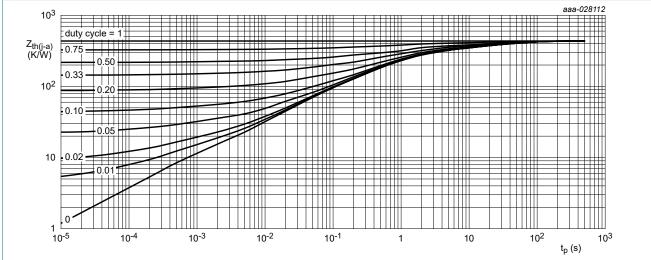
Fig. 1. Power derating curves for SOT23

9. Thermal characteristics

Table 7. Thermal characteristics

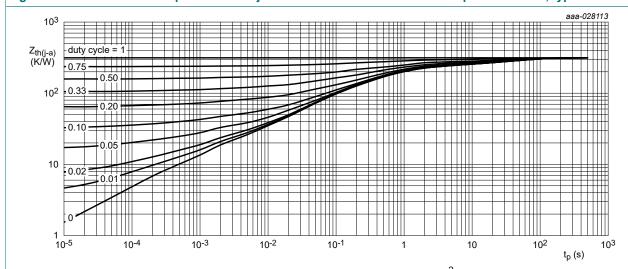
Symbol	Parameter	Conditions		Min	Тур	Max	Unit
R _{th(j-a)}	thermal resistance from junction to ambient	in free air	[1] [2]	-	-	500	K/W
			[3] [2]	-	-	362	K/W

- [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; monting pad for collector 1 cm².



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 cm².

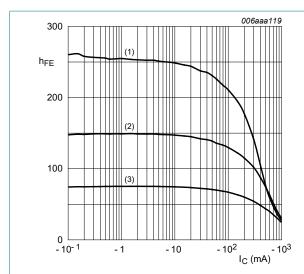
Fig. 3. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

10. Characteristics

Table 8. Characteristics

Parameter	Conditions		Min	Тур	Max	Unit
collector-base breakdown voltage	$I_C = -100 \ \mu\text{A}; \ I_E = 0 \ \text{A}; \ T_{amb} = 25 \ ^{\circ}\text{C}$		-50	-	-	V
collector-emitter breakdown voltage	I _C = -10 mA; I _E = 0 A; T _{amb} = 25 °C		-45	-	-	V
emitter-base breakdown voltage	$I_E = -100 \ \mu A; \ I_C = 0 \ A; \ T_{amb} = 25 \ ^{\circ}C$		-5	-	-	V
collector-base	V _{CB} = -20 V; I _E = 0 A; T _{amb} = 25 °C		-	-	-100	nA
cut-off current	$V_{CB} = -20 \text{ V}; I_E = 0 \text{ A}; T_j = 150 ^{\circ}\text{C}$		-	-	-5	μΑ
emitter-base cut-off current	V _{EB} = -5 V; I _C = 0 A; T _{amb} = 25 °C		-	-	-100	nA
DC current gain			'		'	_
BC807-Q	V _{CE} = -1 V; I _C = -100 mA; T _{amb} = 25 °C	[1]	100	-	600	
BC807-16-Q		[1]	100	-	250	
BC807-25-Q		[1]	160	-	400	
BC807-40-Q		[1]	250	-	600	
DC current gain	V _{CE} = -1 V; I _C = -500 mA; T _{amb} = 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 _{CE} = -1 V; I _C = -500 mA; T _{amb} = 25 °C	[1] [2]	-	-	-1.2	V
transition frequency	V _{CE} = -5 V; I _C = -10 mA; f = 100 MHz; T _{amb} = 25 °C		80	-	-	MHz
collector capacitance	V_{CB} = -10 V; I_{E} = I_{e} = 0 A; f = 1 MHz; T_{amb} = 25 °C		-	5	-	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 BC807-Q BC807-16-Q BC807-25-Q BC807-40-Q 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 $V_{CE} = -1 V; I_C = -100 \text{mA}; T_{amb} = 25 ^{\circ}C$ BC807-Q $V_{CE} = -1 V; I_C = -100 \text{mA}; T_{amb} = 25 ^{\circ}C$ BC807-16-Q [1] BC807-40-Q [1] DC current gain $V_{CE} = -1 V; I_C = -500 \text{mA}; T_{amb} = 25 ^{\circ}C$ [1] collector-emitter saturation voltage $I_C = -500 \text{mA}; I_B = -50 \text{mA}; T_{amb} = 25 ^{\circ}C$ base-emitter voltage $V_{CE} = -1 V; I_C = -500 \text{mA}; T_{amb} = 25 ^{\circ}C$ [1] transition frequency $V_{CE} = -5 V; I_C = -10 \text{mA}; f = 100 \text{MHz}; T_{amb} = 25 ^{\circ}C$ collector capacitance $V_{CB} = -10 V; I_E = i_e = 0 A; f = 1 \text{MHz};$	collector-base breakdown voltage $I_C = -100 \mu\text{A}$; $I_E = 0 \text{A}$; $T_{amb} = 25 ^{\circ}\text{C}$ -50 collector-emitter breakdown voltage $I_C = -10 \text{mA}$; $I_E = 0 \text{A}$; $T_{amb} = 25 ^{\circ}\text{C}$ -45 emitter-base breakdown voltage $I_E = -100 \mu\text{A}$; $I_C = 0 \text{A}$; $T_{amb} = 25 ^{\circ}\text{C}$ -5 collector-base cut-off current $V_{CB} = -20 \text{V}$; $I_E = 0 \text{A}$; $T_{amb} = 25 ^{\circ}\text{C}$ - emitter-base cut-off current $V_{EB} = -5 \text{V}$; $I_C = 0 \text{A}$; $V_{EB} = 0 \text{A}$; V_{E	collector-base breakdown voltage $I_C = -100 \mu A; I_E = 0 A; T_{amb} = 25 ^{\circ}C$ -50 -50 collector-emitter breakdown voltage $I_C = -10 mA; I_E = 0 A; T_{amb} = 25 ^{\circ}C$ -45 -50 collector-base breakdown voltage $I_E = -100 \mu A; I_C = 0 A; T_{amb} = 25 ^{\circ}C$ -5 collector-base cut-off current $V_{CB} = -20 V; I_E = 0 A; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CB} = -20 V; I_E = 0 A; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CB} = -20 V; I_C = 0 A; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CB} = -5 V; I_C = 0 A; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -1 V; I_C = -100 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -1 V; I_C = -100 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -1 V; I_C = -100 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -1 V; I_C = -500 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -1 V; I_C = -500 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -1 V; I_C = -500 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -1 V; I_C = -500 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -1 V; I_C = -500 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -1 V; I_C = -500 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -5 V; I_C = -500 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -5 V; I_C = -500 mA; T_{amb} = 25 ^{\circ}C$ -5 cut-off current $V_{CE} = -5 V; I_C = -10 mA; T_{amb} = 25 ^{\circ}C$ $-5 V; I_C = -10 mA; T_{amb} = 25 ^{\circ}C$ $-5 V; I_C = -10 mA; T_{amb} = 25 ^{\circ}C$ $-5 V; I_C = -10 mA; T_{amb} = 25 ^{\circ}C$ $-5 V; I_C = -10 mA; T_{amb} = 25 ^{\circ}C$ $-5 V; I_C = -10 mA; T_{amb} = 25 ^{\circ}C$ $-5 V; I_C = -10 mA; T_{amb} = 25 ^{\circ}C$ $-5 V; I_C = -10 mA; T_{amb} = 25 ^{\circ}C$ $-5 V; I_C = -10 mA; T_{amb} = 25 ^{\circ}C$ $-5 V; I_C = -10 mA$	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 $V_{CB} = -20 V; I_E = 0 A; T_{amb} = 25 ^{\circ}C$ - - -100 emitter-base cut-off current $V_{CB} = -20 V; I_E = 0 A; T_{amb} = 25 ^{\circ}C$ - - -5 emitter-base cut-off current $V_{CB} = -5 V; I_C = 0 A; T_{amb} = 25 ^{\circ}C$ - - -100 DC current gain $V_{CE} = -1 V; I_C = -100 \text{mA}; T_{amb} = 25 ^{\circ}C$ [1] $100 - 000$ 600 BC807-16-Q BC807-25-Q [1] $160 - 400$ [1] $160 - 400$ BC807-40-Q $V_{CE} = -1 V; I_C = -500 \text{mA}; T_{amb} = 25 ^{\circ}C$ [1] $100 - 500$ DC current gain $V_{CE} = -1 V; I_C = -500 \text{mA}; T_{amb} = 25 ^{\circ}C$ [1] $- - -700$ base-emitter voltage $V_{CE} = -1 V; I_C = -500 \text{mA}; T_{amb} = 25 ^{\circ}C$ [1] $- - -1.2$ transition frequency<

 $[\]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}$



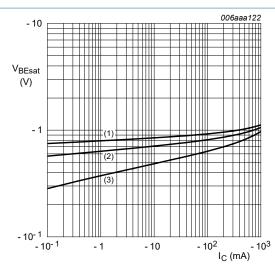
$$V_{CE} = -1 V$$

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

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

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

Fig. 4. BC807-16-Q: DC current gain as a function of collector current; typical values

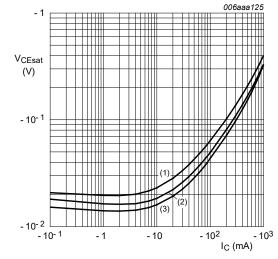


(1)
$$T_{amb} = -55 \, ^{\circ}C$$

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

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

Fig. 5. BC807-16-Q: Base-emitter saturation voltage as a function of collector current; typical values

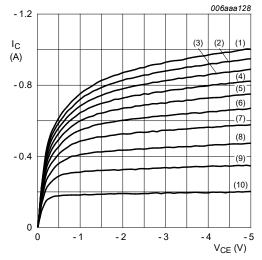


IC/IB = 10

(2)
$$T_{amb}$$
 = 25 °C

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

Fig. 6. BC807-16-Q: Collector-emitter saturation voltage as a function of collector current; typical values



T_{amb} = 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) $I_B = -8.0 \text{ mA}$

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

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

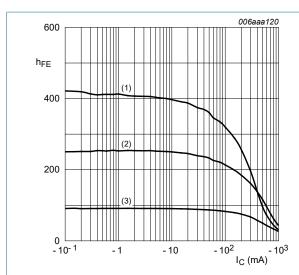
(9) $I_B = -3.2 \text{ mA}$

 $(10) I_B = -1.6 \text{ mA}$

Fig. 7. BC807-16-Q: Collector current as a function of collector-emitter voltage; typical values

Product data sheet

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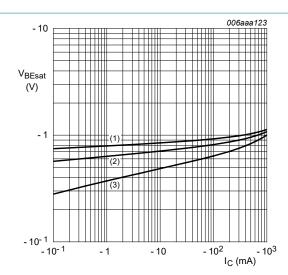
$$V_{CE} = -1 V$$

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

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

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

Fig. 8. BC807-25-Q: DC current gain as a function of collector current; typical values

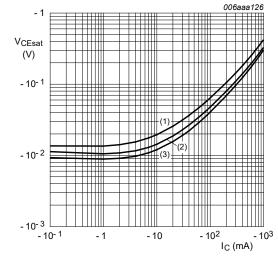


(1)
$$T_{amb} = -55 \, ^{\circ}C$$

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

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

Fig. 9. BC807-25-Q: Base-emitter saturation voltage as a function of collector current; typical values

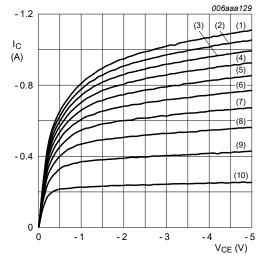


IC/IB = 10

(2)
$$T_{amb}$$
 = 25 °C

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

Fig. 10. BC807-25-Q: Collector-emitter saturation voltage as a function of collector current; typical values



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

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

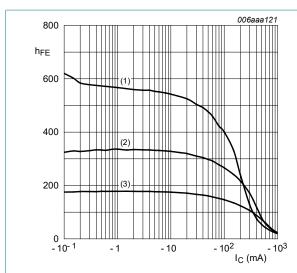
 $(7) I_B = -5.2 \text{ mA}$

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

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

 $(10) I_B = -1.3 \text{ mA}$

Fig. 11. BC807-25-Q: Collector current as a function of collector-emitter voltage; typical values



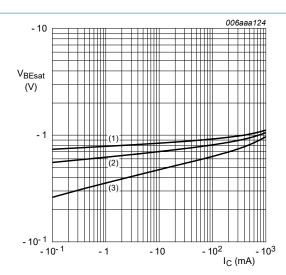
$$V_{CE} = -1 V$$

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

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

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

Fig. 12. BC807-40-Q: DC current gain as a function of collector current; typical values



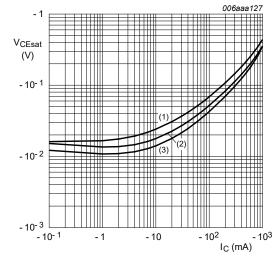
$$IC/IB = 10$$

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

(2)
$$T_{amb}$$
 = 25 °C

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

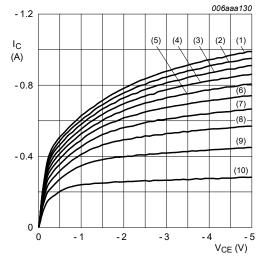
Fig. 13. BC807-40-Q: Base-emitter saturation voltage as a function of collector current; typical values



IC/IB = 10

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

Fig. 14. BC807-40-Q: Collector-emitter saturation voltage as a function of collector current; typical values



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

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

 $(10) I_B = -1.2 \text{ mA}$

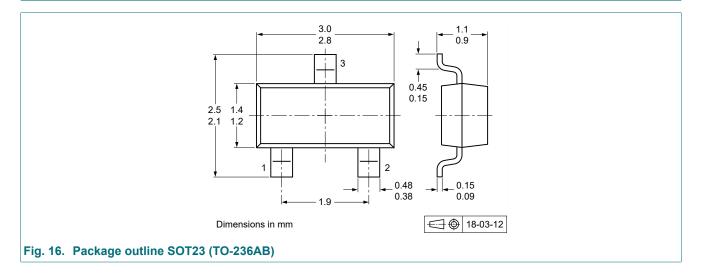
Fig. 15. BC807-40-Q: Collector current as a function of collector-emitter voltage; typical values

11. Test information

11.1. Quality information

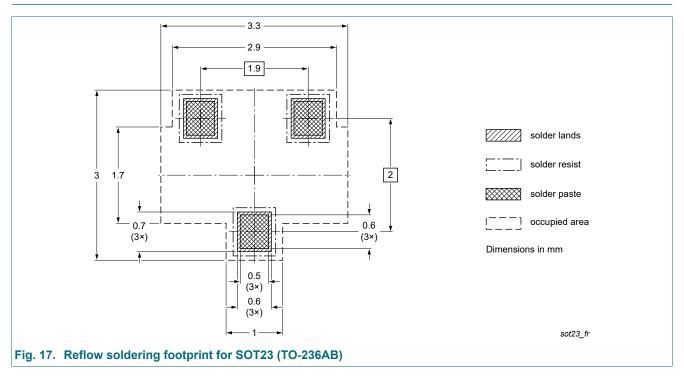
This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard *Q101 - Stress test qualification for discrete semiconductors*, and is suitable for use in automotive applications.

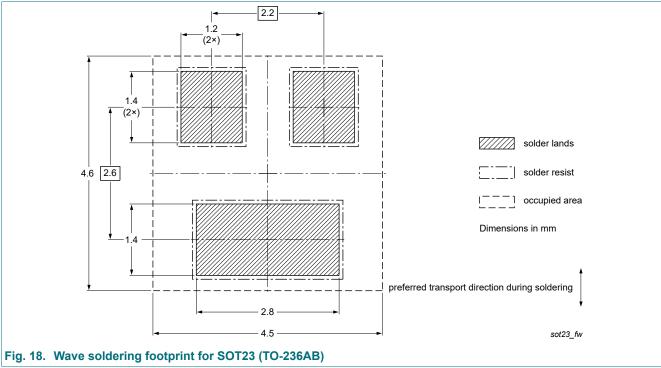
12. Package outline



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13. Soldering





14. Revision history

Table 9. Revision history

Data sheet ID	Release date	Data sheet status	Change notice	Supersedes
BC807-Q_SER v.1	20210608	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.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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45 V, 500 mA PNP general-purpose transistors

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