



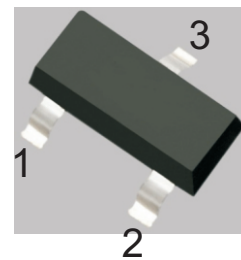
**BC807**

**PNP TRANSISTOR**

**FEATURES**

- Ideally suited for automatic insertion
- Epitaxial planar die construction
- Complementary NPN type available(BC817)

**SOT-23**



1.BASE  
2.EMITTER  
3.COLLECTOR

**MAXIMUM RATINGS (Ta=25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CB0}$	-50	V
Collector-Emitter Voltage	$V_{CE0}$	-45	V
Emitter-Base Voltage	$V_{EB0}$	-5	V
Collector Current — Continuous	$I_c$	-0.5	A
Collector Power Dissipation	$P_c$	0.3	W
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{stg}$	-55~+150	°C

**ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted.)**

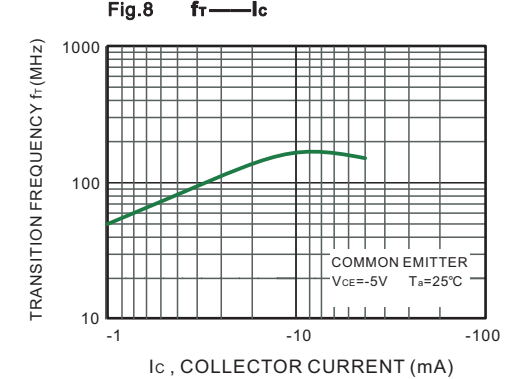
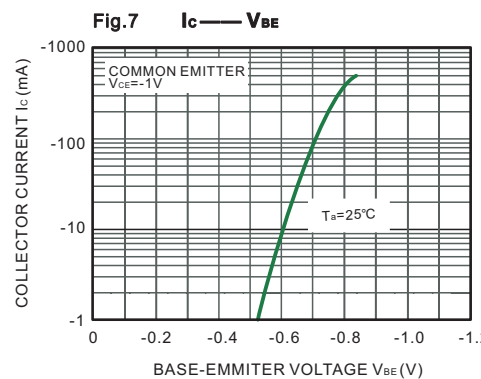
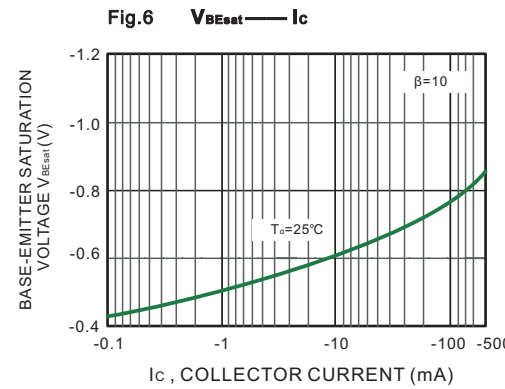
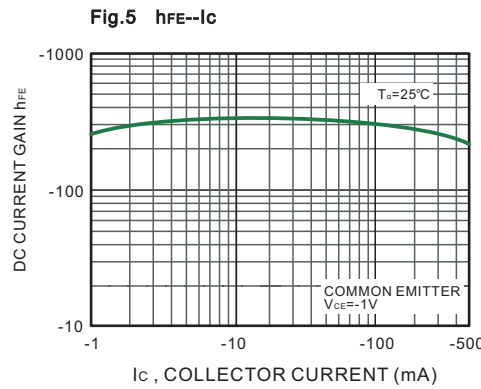
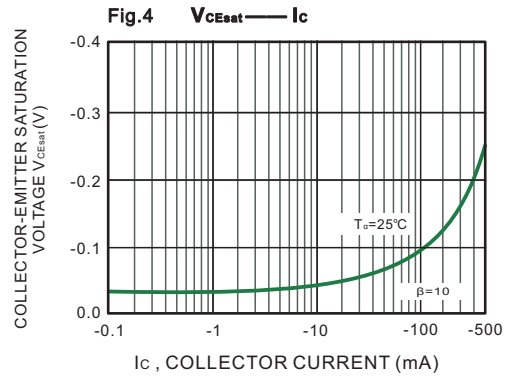
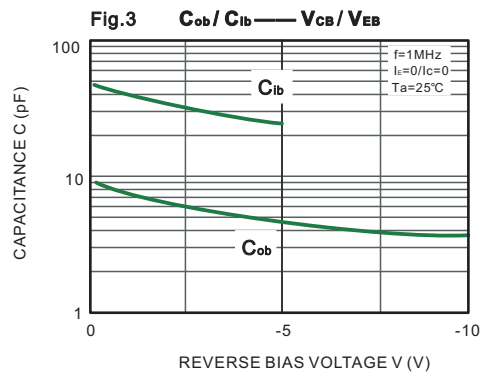
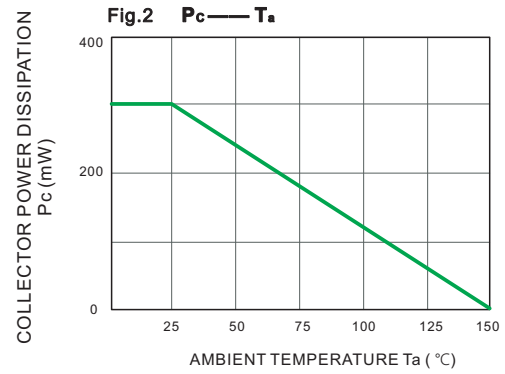
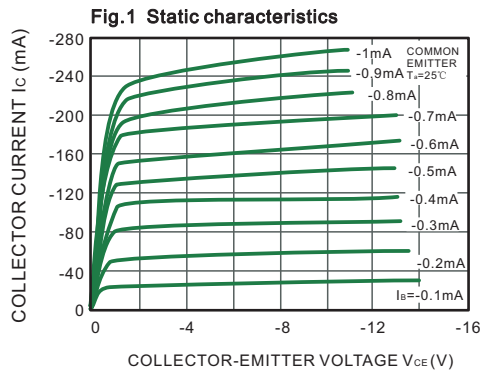
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V_{CB0}$	$I_c = -10\mu A, I_E = 0$	-50		V
Collector-emitter breakdown voltage	$V_{CE0}$	$I_c = -10mA, I_B = 0$	-45		V
Emitter-base breakdown voltage	$V_{EB0}$	$I_E = -1\mu A, I_c = 0$	-5		V
Collector cut-off current	$I_{CB0}$	$V_{CB} = -45V, I_E = 0$		-0.1	$\mu A$
Collector cut-off current	$I_{CE0}$	$V_{CE} = -40V, I_B = 0$		-0.2	$\mu A$
Emitter cut-off current	$I_{EB0}$	$V_{EB} = -4V, I_c = 0$		-0.1	$\mu A$
DC current gain	$h_{FE(1)}$	$V_{CE} = -1V, I_c = -100mA$	100	600	
	$h_{FE(2)}$	$V_{CE} = -1V, I_c = -500mA$	40		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = -500mA, I_B = -50mA$		-0.7	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_c = -500mA, I_B = -50mA$		-1.2	V
Transition frequency	$f_t$	$V_{CE} = -5V, I_c = -10mA, f = 100MHz$	100		MHz

**CLASSIFICATION OF  $h_{FE}$**

RANK	BC807-16	BC807-25	BC807-40
RANGE	100-250	160-400	250-600

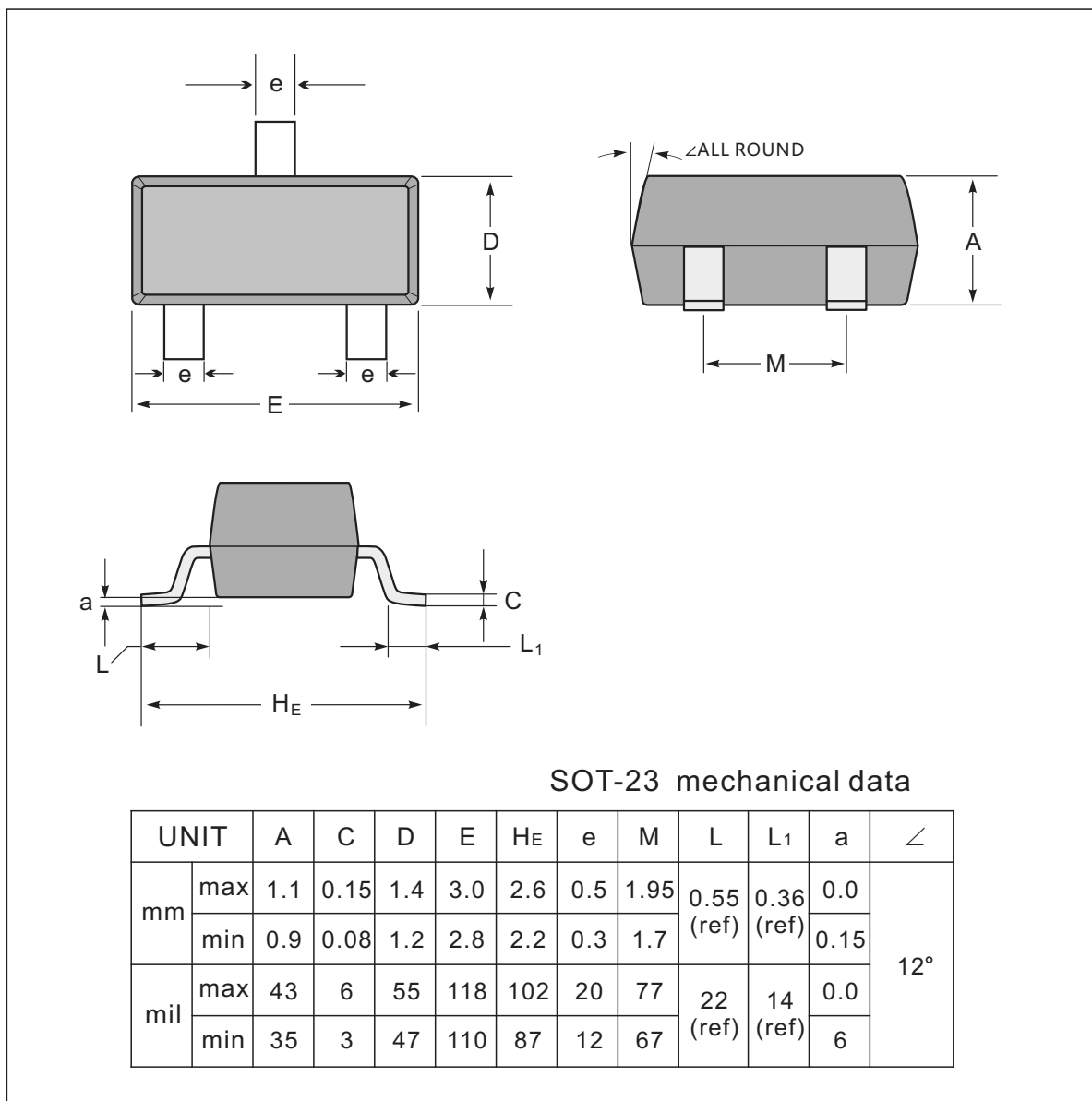


### TYPICAL CHARACTERISTICS

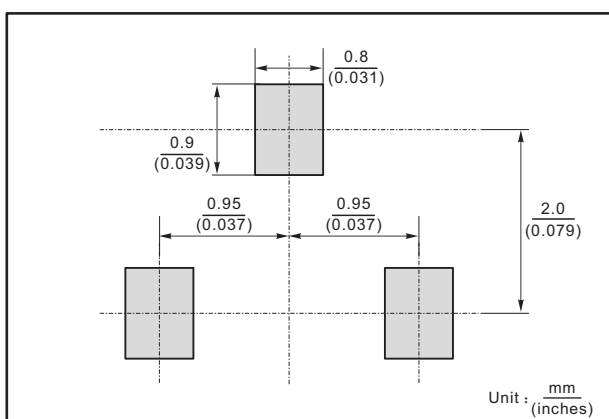




### SOT-23 Package Outline Dimensions



#### The recommended mounting pad size



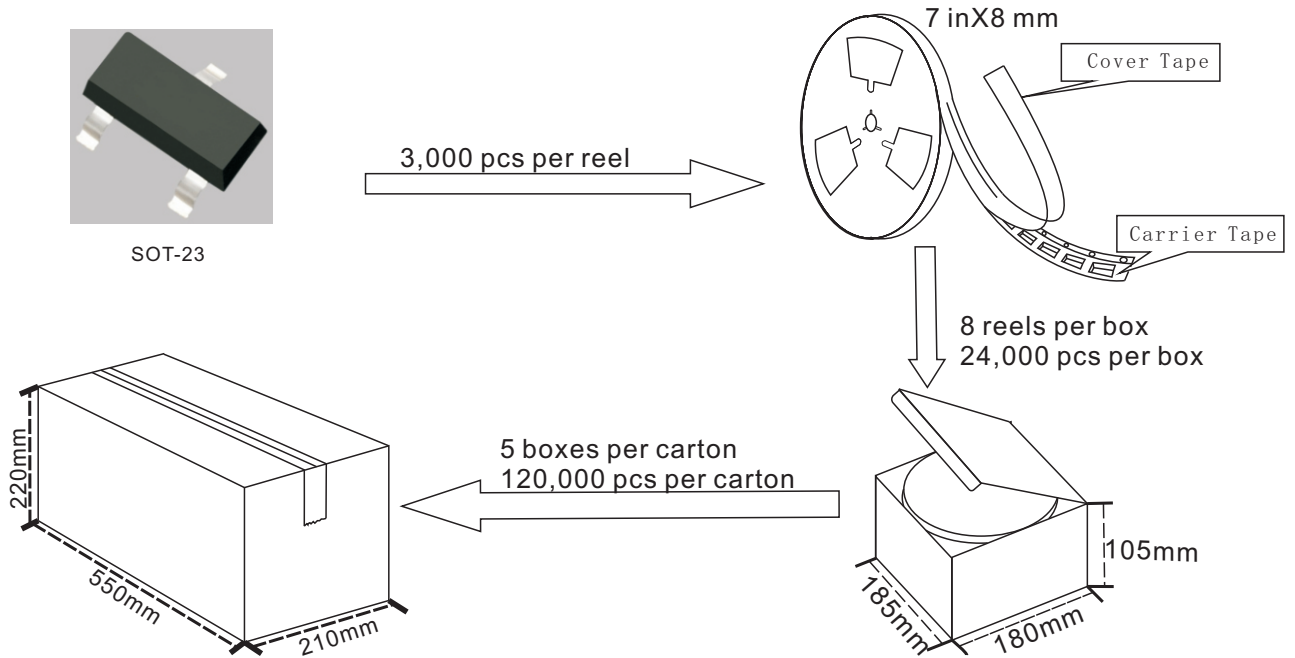
#### Marking

Type number	Marking code
BC807-16	5A
BC807-25	5B
BC807-40	5C

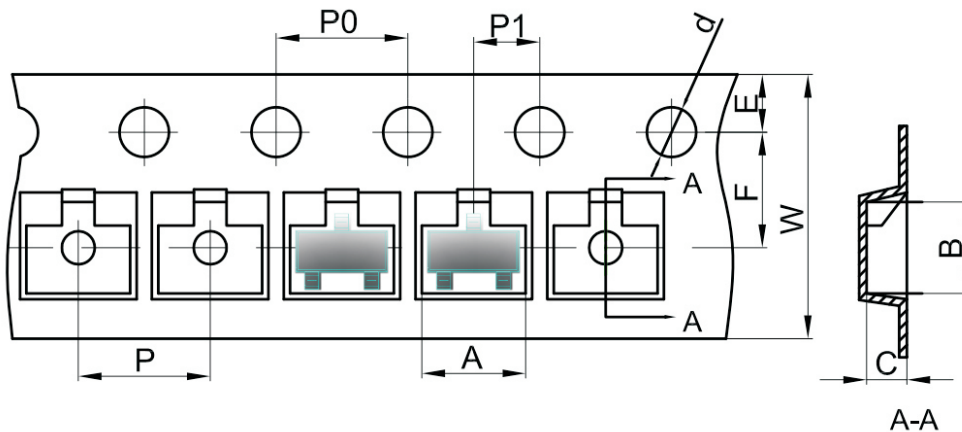


## SOT-23 Packing

1. The method of packaging and dimension are shown as below figure. (Dimension in mm)



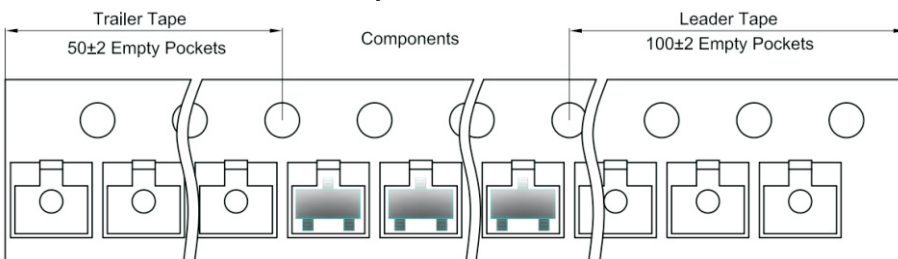
### SOT-23 Embossed Carrier Tape



Dimensions are in millimeter

Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

### SOT-23 Tape Leader and Trailer



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Bipolar Transistors - BJT category](#):*

*Click to view products by [Jingdao manufacturer](#):*

Other Similar products are found below :

[619691C](#) [MCH4017-TL-H](#) [MMBT-2369-TR](#) [BC546/116](#) [BC557/116](#) [BSW67A](#) [NJVMJD148T4G](#) [NTE123AP-10](#) [NTE153MCP](#) [NTE16](#)  
[NTE195A](#) [NTE92](#) [2N4401-A](#) [2N6728](#) [2SA1419T-TD-H](#) [2SA2126-E](#) [2SB1204S-TL-E](#) [2SC2712S-GR,LF](#) [SP000011176](#) [2N2907A](#) [2N3904-](#)  
[NS](#) [2N5769](#) [2SC2412KT146S](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#) [MJE340](#) [Jantx2N5416](#) [US6T6TR](#) [NJL0281DG](#) [732314D](#) [CPH3121-TL-E](#)  
[CPH6021-TL-H](#) [873787E](#) [IMZ2AT108](#) [MMST8098T146](#) [UMX21NTR](#) [MCH6102-TL-E](#) [NJL0302DG](#) [30A02MH-TL-E](#) [NTE13](#) [NTE26](#)  
[NTE282](#) [NTE323](#) [NTE350](#) [NTE81](#) [STX83003-AP](#) [JANTX2N2920L](#) [JANSR2N2222AUB](#) [CMLT3946EG TR](#) [2SA1371D-AE](#)