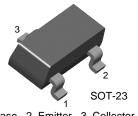


SEMICONDUCTOR®

BC807/BC808

Switching and Amplifier Applications

- Suitable for AF-Driver stages and low power output stages
- Complement to BC817/BC818



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CES}	Collector-Emitter Voltage		
010	: BC807	-50	V
	: BC808	-30	V
V _{CEO}	Collector-Emitter Voltage		
	: BC807	-45	V
	: BC808	-25	V
V _{EBO}	Emitter-Base Voltage	-5	V
c	Collector Current (DC)	-800	mA
I _C P _C	Collector Power Dissipation	-310	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65 ~ 150	°C

Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

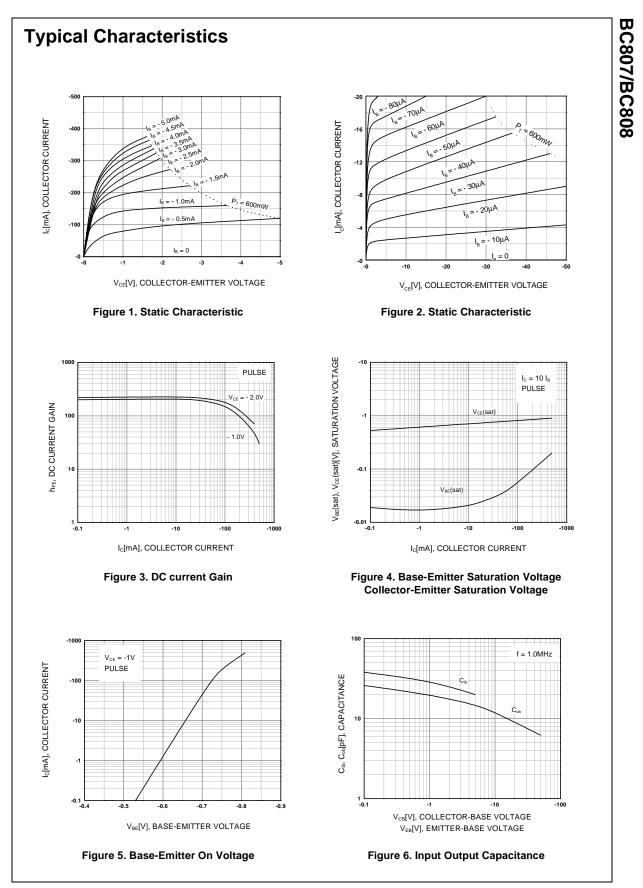
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0				
	: BC807		-45			V
	: BC808		-25			V
BV _{CES}	Collector-Emitter Breakdown Voltage	I _C = -0.1mA, V _{BE} =0				
010	: BC807		-50			V
	: BC808		-30			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -0.1mA, I _C =0	-5			V
I _{CES}	Collector Cut-off Current	V _{CE} = -25V, V _{BE} =0			-100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -4V, I _C =0			-100	nA
h _{FF1}	DC Current Gain	V _{CF} = -1V, I _C = -100mA	100		630	
h _{FE2}		V _{CE} = -1V, I _C = -300mA	60			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA			-0.7	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -1V, I _C = -300mA			-1.2	V
f _T Current Gain Bandwidth Product		V _{CE} = -5V, I _C = -10mA f=50MHz		100		MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, f=1MHz			12	pF

BC807/BC808

Classification 16 25 40 hFE1 100 ~ 250 160 ~ 400 250 ~ 630 hFE2 60 100 170

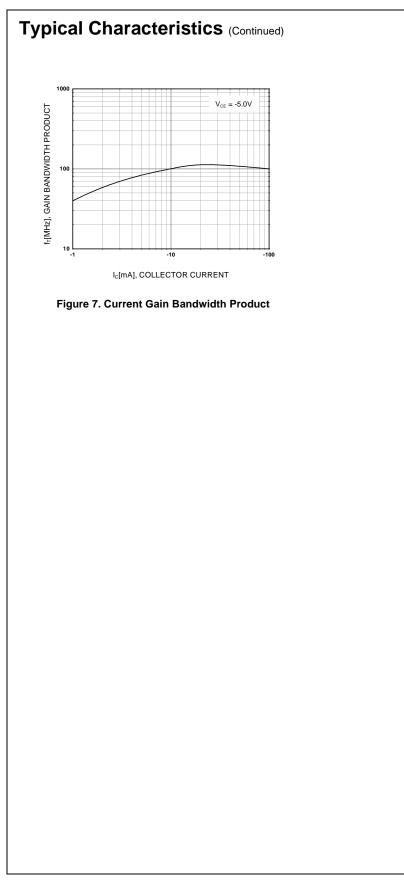
Marking Code

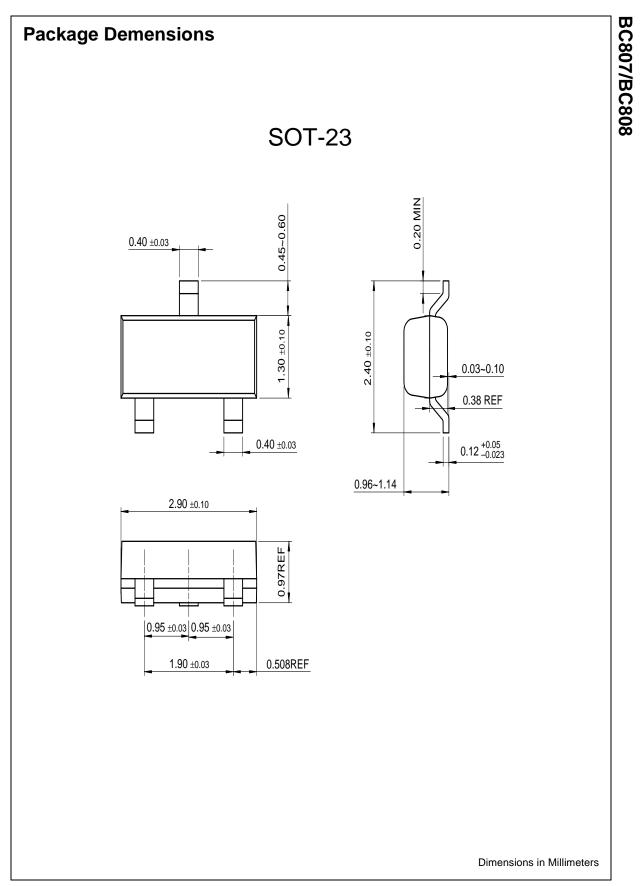
Туре	807-16	807-25	807-40	808-16	808-25	808-40
Marking	9FA	9FB	9FC	9GA	9GB	9GC



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Rev. A1, June 2001





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Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production This datasheet contains preliminary data, and supplementary data will be published at a later dat Fairchild Semiconductor reserves the right to make changes at any time without notice in order to impr design.	
No Identification Needed	Full Production This datasheet contains final Semiconductor reserves the any time without notice in ord	
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

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Product	Product status	Pricing*	Package type	Leads	Packing method
BC80716MTF	Full Production	\$0.058	<u>SOT-23</u>	3	TAPE REEL
BC80740MTF	Full Production	\$0.058	<u>SOT-23</u>	3	TAPE REEL
BC80725MTF	Full Production	\$0.058	<u>SOT-23</u>	3	TAPE REEL

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BC80825MTF	Full Production	\$0.058	<u>SOT-23</u>	3	TAPE REEL
BC80840MTF	Full Production	\$0.058	<u>SOT-23</u>	3	TAPE REEL

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