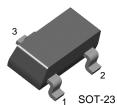


SEMICONDUCTOR®

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		
010	: 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

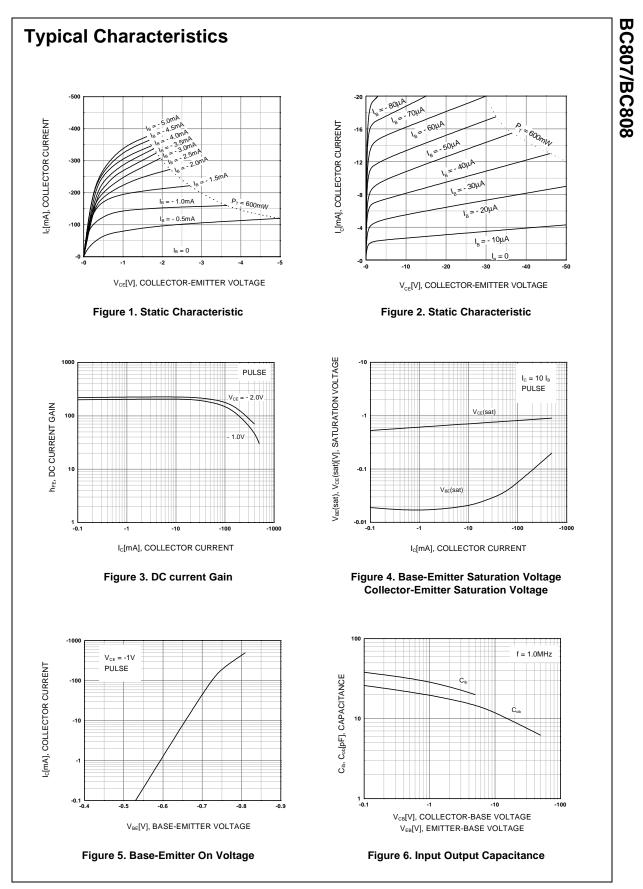
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0				
	: BC807		-45			V
	: BC808		-25			V
BV _{CES}	Collector-Emitter Breakdown Voltage	I _C = -0.1mA, V _{BE} =0				
010	: BC807	0 52	-50			V
	: BC808		-30			V
BV _{EBO}	Emitter-Base 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 _{CE} = -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

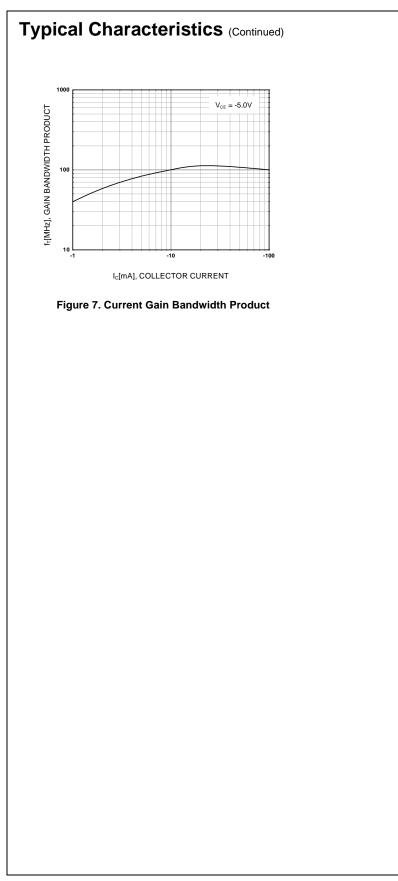
Marking Code

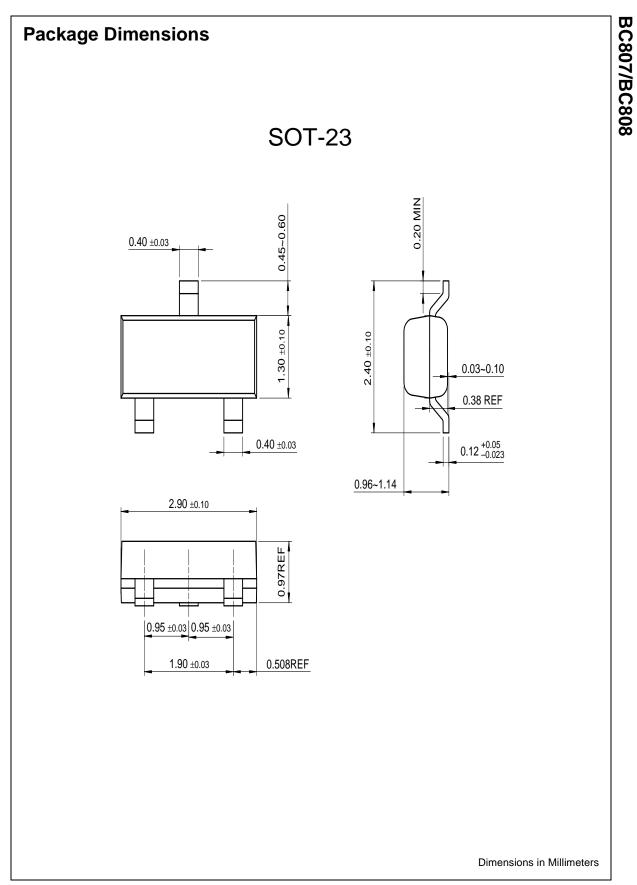
Туре	807-16	807-25	807-40	808-16	808-25	808-40
Marking	9FA	9FB	9FC	9GA	9GB	9GC



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Rev. A2, August 2002





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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

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.
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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