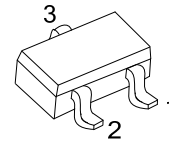
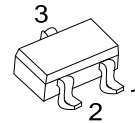


**BC807/BC808****PNP SILICON TRANSISTOR****SWITCHING AND AMPLIFIER APPLICATIONS****■ FEATURES**

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

**SOT-23**
(JEDEC TO-236)**SOT-323****■ ORDERING INFORMATION**

Ordering Number	Package	Pin Assignment			Packing
		1	2	3	
BC807G-xx-AE3-R	SOT-23	E	B	C	Tape Reel
BC807G-xx-AL3-R	SOT-323	E	B	C	Tape Reel
BC808G-xx-AE3-R	SOT-23	E	B	C	Tape Reel
BC808G-xx-AL3-R	SOT-323	E	B	C	Tape Reel

Note: Pin Assignment: C: Collector B: Base E: Emitter

	(1)Packing Type	(1) R: Tape Reel
	(2)Package Type	(2) AE3: SOT-23, AL3: SOT-323
	(3)Rank	(3) xx: refer to Classification of hFE
	(4)Green Package	(4) G: Halogen Free and Lead Free

■ MARKING

807-16	807-25	807-40
808-16	808-25	808-40

BC807/BC808

PNP SILICON TRANSISTOR

■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Emitter Voltage	BC807	V_{CES}	-50	V
	BC808		-30	V
Collector-Emitter Voltage	BC807	V_{CEO}	-45	V
	BC808		-25	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current (DC)		I_C	-800	mA
Collector Dissipation		P_C	310	mW
Junction Temperature		T_J	+150	$^{\circ}\text{C}$
Storage Temperature		T_{STG}	-65 ~ +150	$^{\circ}\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise noted)

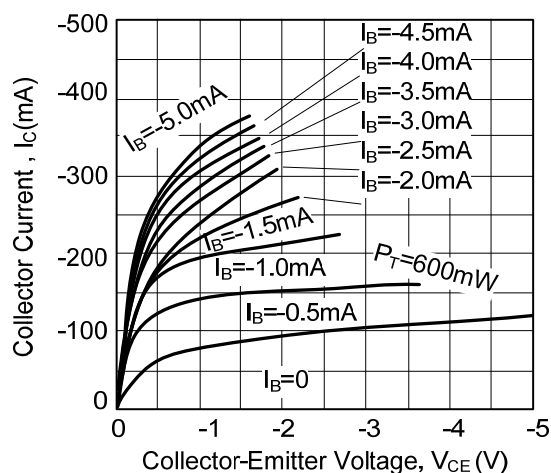
PARAMETER		SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BC807	BV_{CEO}	$I_C=-10\text{mA}$, $I_B=0$	-45			V
	BC808			-25			V
Collector-Emitter Breakdown Voltage	BC807	BV_{CES}	$I_C=-0.1\text{mA}$, $V_{BE}=0$	-50			V
	BC808			-30			V
Emitter-Base Breakdown Voltage		BV_{EBO}	$I_E=-0.1\text{mA}$, $I_C=0$	-5			V
Collector Cut-OFF Current		I_{CES}	$V_{CE}=-25\text{V}$, $V_{BE}=0$			-100	nA
Emitter Cut-OFF Current		I_{EBO}	$V_{EB}=-4\text{V}$, $I_C=0$			-100	nA
DC Current Gain		h_{FE1}	$I_C=-100\text{mA}$, $V_{CE}=-1\text{V}$	100		630	
		h_{FE2}	$I_C=-300\text{mA}$, $V_{CE}=-1\text{V}$	60			
Collector-Emitter Saturation Voltage		$V_{CE(SAT)}$	$I_C=-500\text{mA}$, $I_B=-50\text{mA}$			-0.7	V
Base-Emitter ON Voltage		$V_{BE(ON)}$	$I_C=-300\text{mA}$, $V_{CE}=-1\text{V}$			-1.2	V
Current Gain Bandwidth Product		f_T	$V_{CE}=-5\text{V}$, $I_C=-10\text{mA}$, $f=50\text{MHz}$		100		MHz
Output Capacitance		C_{ob}	$V_{CB}=-10\text{V}$, $f=1\text{MHz}$			12	pF

■ CLASSIFICATION OF h_{FE}

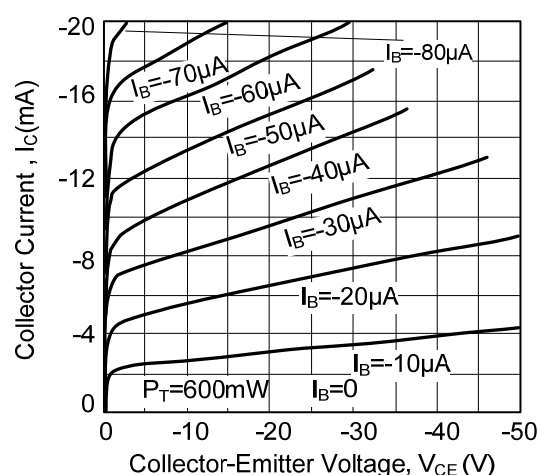
RANK	16	25	40
h_{FE1}	100-250	160-400	250-630
h_{FE2}	60-	100-	170-

TYPICAL CHARACTERISTICS

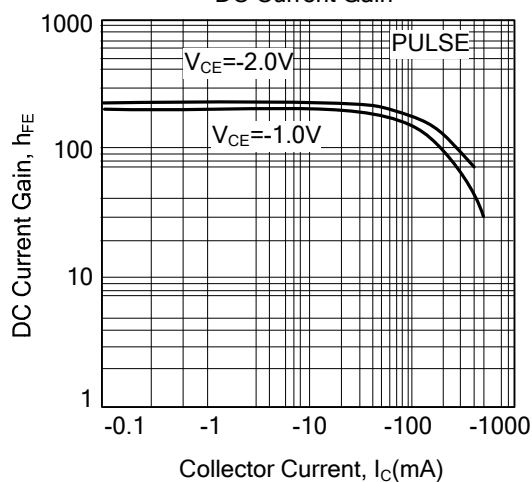
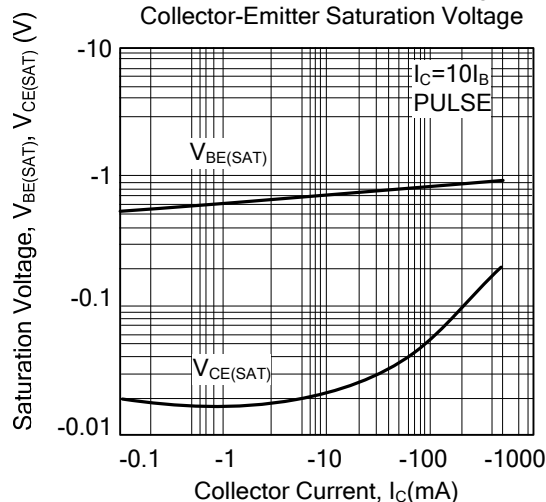
Static Characteristic



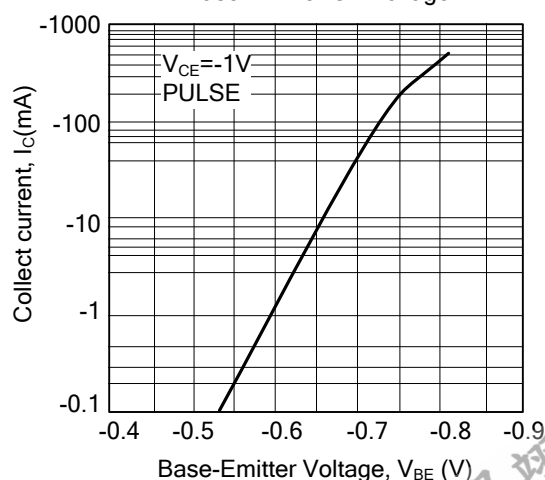
Static Characteristic



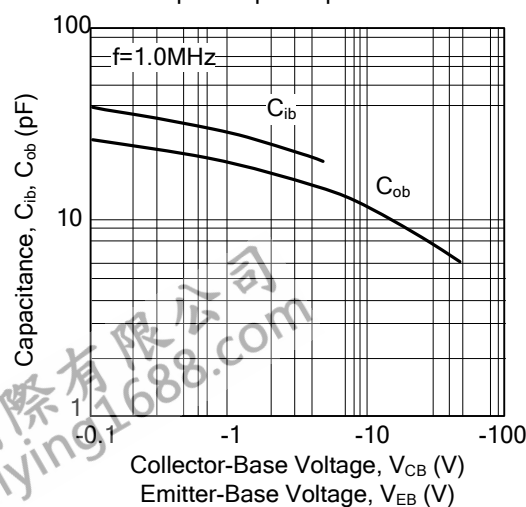
DC Current Gain

Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

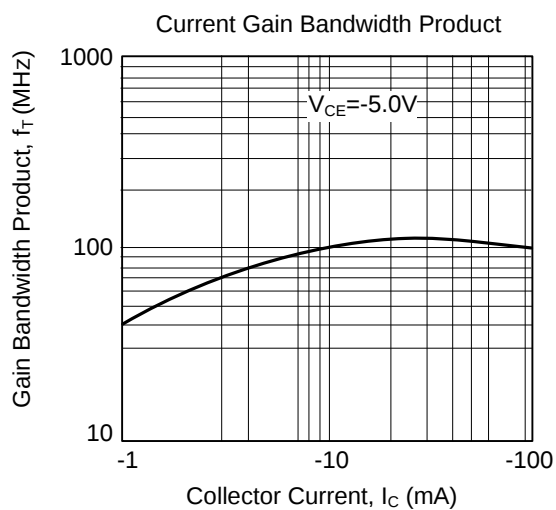
Base-Emitter On Voltage



Input Output Capacitance



■ TYPICAL CHARACTERISTICS(Cont.)



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.