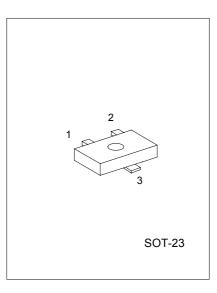
## UTC BC807/BC808 PNP EPITAXIAL SILICON TRANSISTOR

## SWITCHING AND AMPLIFIER APPLICATIONS

#### FEATURES

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



#### 1: EMITTER 2: BASE 3: COLLECTOR

#### ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT	
Collector-Emitter Voltage	www.DataSheet4U.cVCES			
BC807		-50	V	
BC808		-30	V	
Collector-Emitter Voltage	VCE0			
BC807		-45	V	
BC808		-25	V	
Emitter-Base Voltage	VEBO	-5	V	
Collector Current (DC)	lc	-800	mA	
Collector Dissipation	Pc	-310	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature	Tstg	-65 to +150	°C	

#### ELECTRICAL CHARACTERISTICS (Ta=25°C, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BVCEO	Ic=-10mA, Iв=0				
BC807			-45			V
BC808			-25			V
Collector-Emitter Breakdown Voltage	BVCES	Ic=-0.1mA, VBE=0				
BC807			-50			V
BC808			-30			V
Emitter-Base Breakdown Voltage	ВVево	IE=-0.1mA, Ic=0	-5			V
Collector Cut-off Current	ICES	VCE=-25V, V <sub>BE</sub> =0			-100	nA
Emitter Cut-off Current	IEBO	VEB=-4V, IC=0			-100	nA

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## UTC BC807/BC808 PNP EPITAXIAL SILICON TRANSISTOR

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
DC Current Gain	hFE1	Ic=-100mA, Vce=-1V	100		630	
	hFE2	Ic=-300mA, Vce=-1V	60			
Collector-Emitter Saturation Voltage	VCE(sat)	Ic=-500mA, IB=-50mA			-0.7	V
Base-Emitter On Voltage	VBE(on)	Ic=-300mA, Vce=-1V			-1.2	V
Current Gain Bandwidth Product	f <sub>T</sub>	VCE=-5V, Ic=-10mA, f=50MHz		100		MHz
Output Capacitance	Cob	Vcb=-10V, f=1MHz			12	pF

#### Classification of h<sub>FE</sub>

RANK	16	25	40	
h <sub>FE1</sub>	100-250	160-400	250-630	
h <sub>FE2</sub>	60-	100-	170-	

#### Marking Code

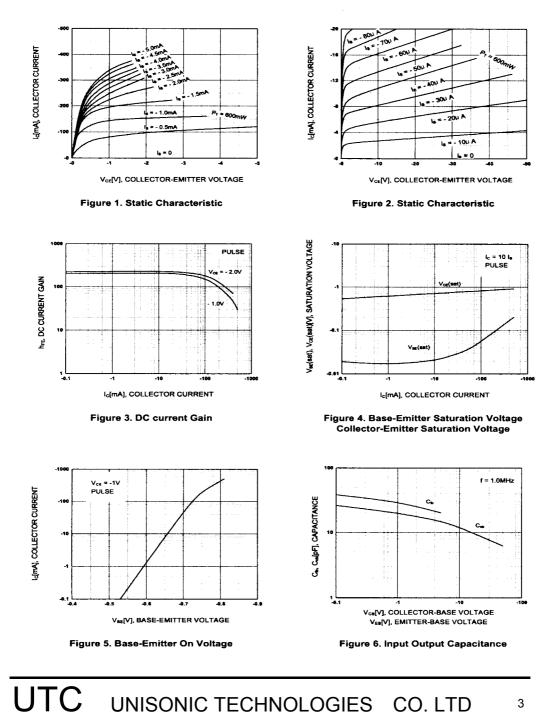
		-	-			-
TYPE	807-16	807-25	807-40	808-16	808-25	808-40
MARK	9FA	9FB	9FC	9GA	9GB	9GC

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## UTC BC807/BC808

## PNP EPITAXIAL SILICON TRANSISTOR

#### **TYPICAL CHARACTERISTICS**



### PNP EPITAXIAL SILICON TRANSISTOR

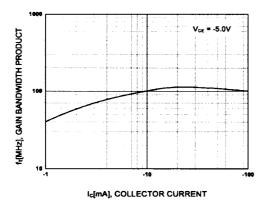


Figure 7. Current Gain Bandwidth Product

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