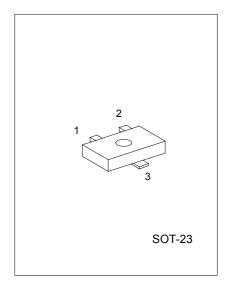
SWITCHING AND AMPLIFIER APPLICATIONS

FEATURES

- *Suitable for AF-Driver stages and low power output
- *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	Vces		
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)	Ic	-800	mA
Collector Dissipation	Pc	-310	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstq	-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, IB=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	ВУево	IE=-0.1mA, Ic=0	-5			V
Collector Cut-off Current	Ices	VCE=-25V, V _{BE} =0			-100	nA
Emitter Cut-off Current	IЕВО	VEB=-4V, IC=0			-100	nA

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UTCBC807/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		VCE=-5V, Ic=-10mA, f=50MHz		100		MHz
Output Capacitance C		Vcb=-10V, f=1MHz			12	рF

Classification of h_{FE}

RANK	16	25	40 250-630	
h _{FE1}	100-250	160-400		
h _{FE2}	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

TYPICAL CHARACTERISTICS

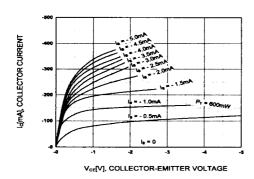


Figure 1. Static Characteristic

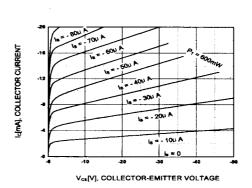


Figure 2. Static Characteristic

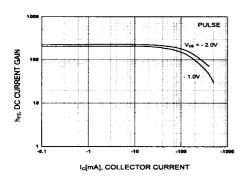


Figure 3. DC current Gain

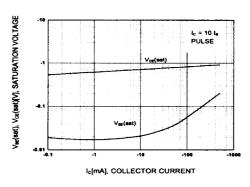


Figure 4. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

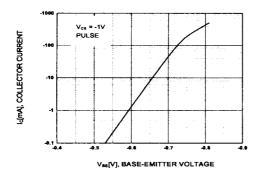


Figure 5. Base-Emitter On Voltage

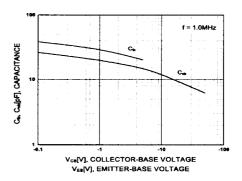


Figure 6. Input Output Capacitance

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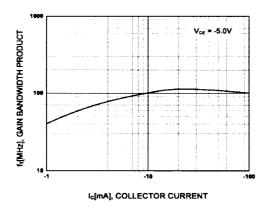


Figure 7. Current Gain Bandwidth Product

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