

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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BC808-16 BC808-25 BC808-40

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Capable of 0.3Watts of Power Dissipation.
- Collector-current 0.8A
- Operating and storage junction temperature range: -65°C to +150°C Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Mechanical Data

- Case: SOT-23 Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208

Parameter

- Weight: 0.008 grams (approx.)
- Device Marking: BC808-16 5E

BC808-25 5F BC808-40 5G

Electrical Characteristics @ 25°C Unless Otherwise Specified Min

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OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =-10mAdc, I _B =0)	-25		
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-100uAdc, I _E =0)	-30	-	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =-100uAdc, I _C =0)	-5.0		Vdc
Сво	Collector Cutoff Current (V _{CB} =-25Vdc,I _E =0)		-0.1	uAdc
l _{EBO}	Emitter Cutoff Current (V _{EB} =-4.0Vdc, I _C =0)		-0.1	uAdc

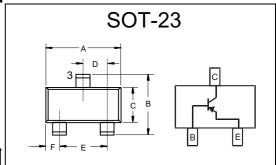
ON CHARACTERISTICS

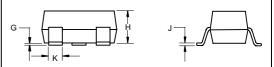
h _{FE(1)}	DC Current Gain			
	$(I_C=-100 \text{mAdc}, V_{CE}=-1.0 \text{Vdc})$			
	BC808-16	100	250	
	BC808-25	160	400	
	BC808-40	250	630	
h _{FE(2)}	DC Current Gain	60		
	$(I_C=-300 \text{ mAdc}, V_{CE}=-1.0 \text{ Vdc})$			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		-0.7	Vdc
. ,	$(I_C=-500 \text{mAdc}, I_B=-50 \text{mAdc})$			
V_{BE}	Base-Emitter Voltage		-1.2	Vdc
	$(V_{CE}=-1Vdc,I_{C}=-300mAdc)$			

SMALL SIGNAL CHARACTERISTICS

f _T	Transition frequency	100	 MHz
	(V _{CE} =-5.0V, f=50MHz, l _C =-10mA)		
C_{ob}	Collector output capacitance	12	 рF
	(V _{CE} =-5.0V, f=50MHz, l _C =-10mA)		

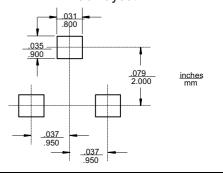
PNP Silicon General Purpose Transistors





DIMENSIONS					
	INCHES		М	М	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
С	.047	.055	1.20	1.40	
О	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
Ð	.0005	.0039	.013	.100	
I	.035	.044	.89	1.12	
٦	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout





BC808-16 thru BC808-40

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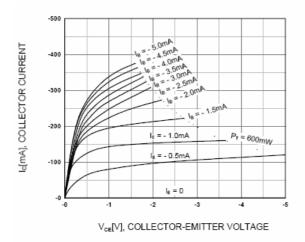


Figure 1. Static Characteristic

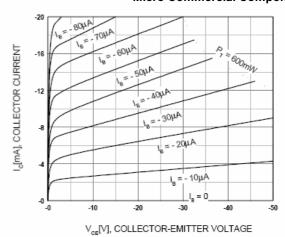


Figure 2. Static Characteristic

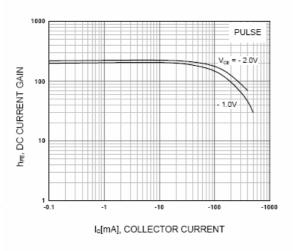


Figure 3. DC current Gain

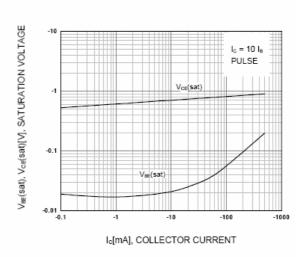


Figure 4. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

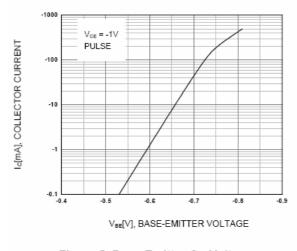


Figure 5. Base-Emitter On Voltage

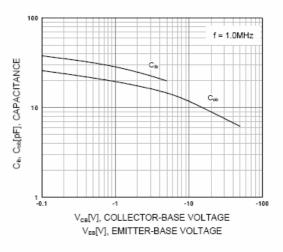


Figure 6. Input Output Capacitance



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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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