



0.3 Watts, PNP Plastic-Encapsulate Transistor

FEATURES

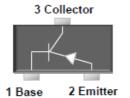
- Ideally suited for automatic insertion
- Epitaxial planar die construction
- For switching, AF driver, and ampliefer applications
- Complementary PNP type available (BC807)
- Pb free and RoHS compliant
- Packing code with suffix "G" means green compound (halogen-free)

MECHANICAL DATA

- Case: SOT- 23, Molded plastic
- Terminal: Solderable per MIL-STD-202, method 208
- Case material: Molded plastic, UL flammability classification rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020C
- Lead free plating
- Weight: 0.008grams (approximately)









SOT-23

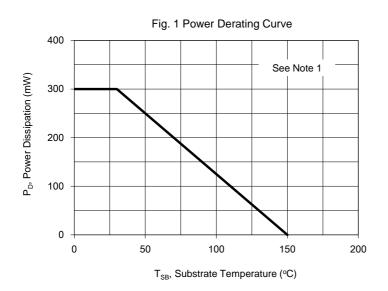
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER	SYMBOL	VALUE	UNIT		
Power Dissipation	P _D	0.3	W		
Collector Current - Continuous	I _C	-0.5	Α		
Junction Temperature	TJ	150	°C		
Storage Temperature Range	T _{STG}	-55 to + 150	°C		

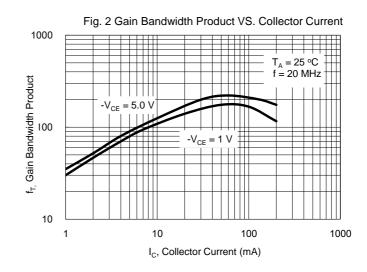
PARAMETER					SYMBOL	MIN	MAX	UNIT
Collector-Base Breakdown Voltage		I _C = -10 μA	I _E = 0		V_{CBO}		-50	V
Collector-Emitter Breakdown Voltage		$I_C = -10 \text{ mA}$	$I_B = 0$		V_{CEO}		-45	V
Emitter-Base Breakdown Voltage		I _E = -1 μA	$I_C = 0$		V_{EBO}		-5	V
Collector Cut-off Current		V _{CB} = -45 V	$I_E = 0$,		-0.1	μΑ
Collector Cut-on Current		$V_{CB} = -40 \text{ V}$	$I_B = 0$		I _{CBO}		-0.2	μΑ
Emitter Cut-off Current		V _{EB} = -4 V	$I_C = 0$		I _{EBO}		-0.1	μΑ
Collector-Emitter Saturation Voltage		at $I_C = -50$)0mA	$I_B = -50 \text{ mA}$	V _{CE(sat)}		-0.7	V
Base-Emitter Saturation Voltage		at I _C = -50	00 mA	$I_B = -50 \text{ mA}$	$V_{BE(sat)}$		-1.2	V
Transition Frequency		$V_{CE} = -5 \text{ V } I_{C}$	= -10 m/	A f = 50MHz	f _T		80	MHz
	807-16					100	250	
DC Current Gain	807-25	$V_{CE} = -1 \text{ V } I_{C} = -100 \text{ mA}$		h _{FE}	160	400		
	807-40					250	600	

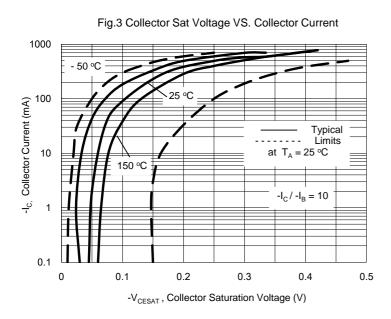


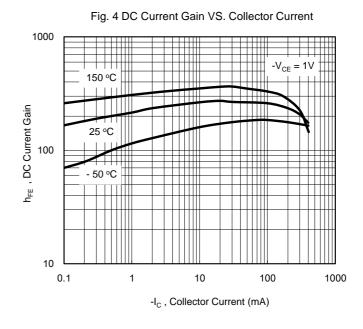
RATINGS AND CHARACTERISTICS CURVES

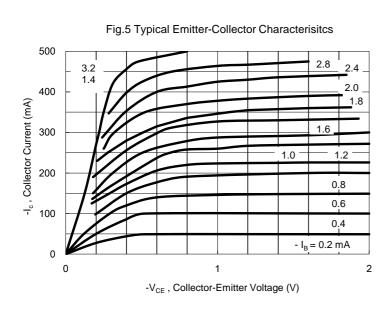
(TA=25°C unless otherwise noted)

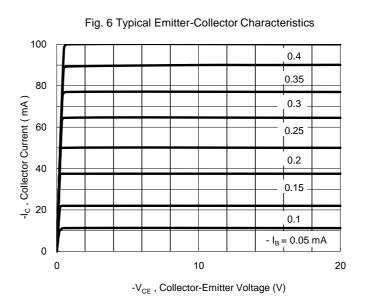


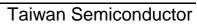














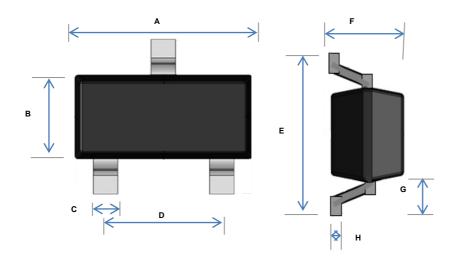
ORDERING INFORMATION					
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	MARKING
BC807-16					5A
BC807-25	RF	G	SOT-23	3K / 7" Reel	5B
BC807-40					5C

EXAMPLE					
PREFERRED	PART NO.	PACKING	PACKING CODE	DESCRIPTION	
PART NO.	CODE		SUFFIX		
BC807-16 RFG	BC807-16	RF	G	Green compound	

Version: G1605

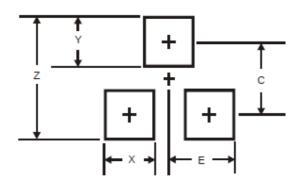


DIMENSIONS



DIM.	Unit((mm)	Unit(inch)		
DIIVI.	Min	Max	Min	Max	
Α	2.70	3.10	0.106	0.122	
В	1.10	1.50	0.043	0.059	
С	0.30	0.51	0.012	0.020	
D	1.78	2.04	0.070	0.080	
Е	2.10	2.64	0.083	0.104	
F	0.89	1.30	0.035	0.051	
G	0.55 REF		0.022	REF	
Н	0.1 REF		0.004	REF	

SUGGEST PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)		
DIIVI.	Тур.	Тур.		
Α	0.95	0.037		
В	2.0	0.079		
С	0.9	0.035		
D	0.8	0.031		





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Version: G1605