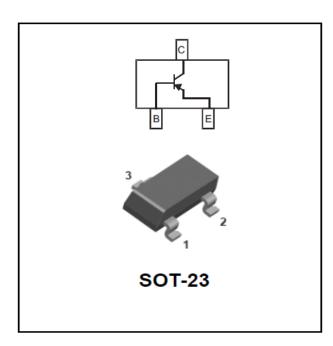




PNP General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Marking:

2SB1197-P	AHP
2SB1197-Q	AHQ
2SB1197-R	AHR

■ Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V _{CBO}	V	I _C =-50uAdc, I _E =0	-40
Collector-Emitter Voltage	V _{CEO}	V	I _C =-1mAdc, I _B =0	-32
Emitter-Base Voltage	V_{EBO}	V	I _E =-50uAdc, I _C =0	-5
Collector Current	Ic	mA		-800
Collector Power Dissipation	Pc	mW		200
Operation Junction Temperature	T _j	°C		150
Storage Temperature	T _{stg}	°C		-55 to +150

■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Тур	Max
Collector-base breakdown voltage	V_{CBO}	V	IC=-50uA,IE=0	-40		
Collector-emitter breakdown voltage	V _{CEO}	V	IC =-1mA,IB=0	-32		
Emitter-base breakdown voltage	V _{EBO}	V	IE=-50μA,IC=0	-5		
Collector-base cut-off current	I _{CBO}	uA	VCB=-20V, IE=0			-0.5
Emitter-base cut-off current	I _{EBO}	uA	VEB=-4V, IC =0			-0.5
DC current gain	h _{FE}		VCE=-3V,IC=-100mA	82		390
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=-500mA,IB=-50mA			-0.5
Transition frequency	f⊤	MHz	VCE=-5V,IE=50mA,f=100MHz	100		
Collector-base output capacitance	Cob	pF	VCB=-10V,f=1MHz			30

1/5







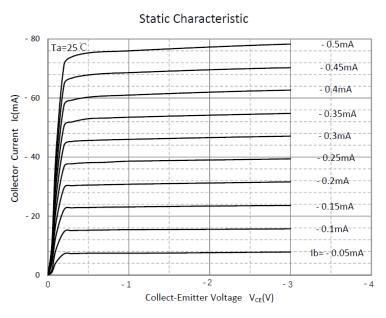
■CLASSIFICATION OF HFE

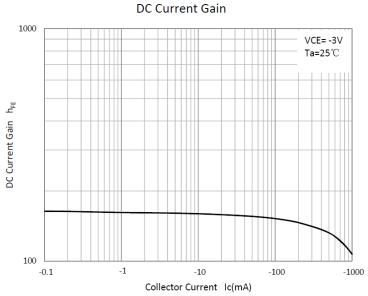
Rank	Р	Q	R
Range	82-180	120-270	180-390

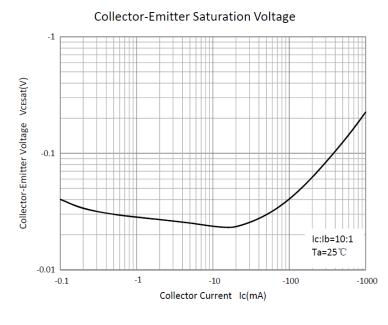
■ Ordering Information (Example)

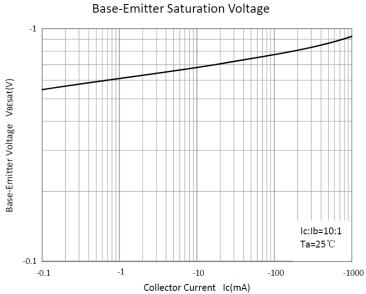
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
2SB1197	F2	Approximate 0.008	3000	30000	120000	7" reel

■ Characteristics (Typical)





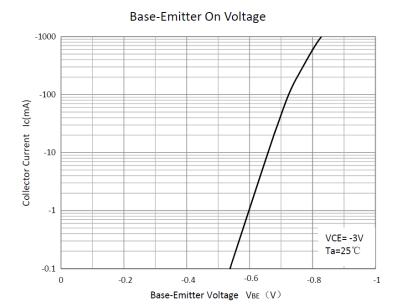


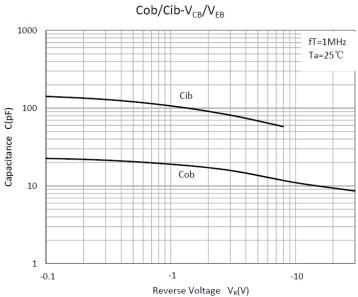








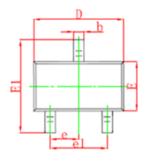


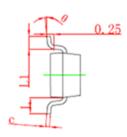


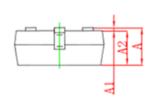




■SOT-23 Package Outline Dimensions

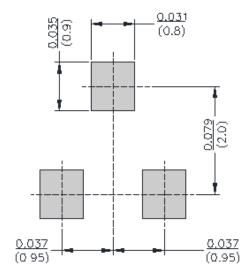






Symbol	Dimensions In	Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0. 900	1. 150	0.035	0. 045	
A1	0.000	0. 100	0.000	0.004	
A2	0.900	1. 050	0. 035	0. 041	
ь	0.300	0, 500	0.012	0.020	
с	0. 100	0. 200	0.004	0.008	
D	2.800	3, 000	0. 110	0.118	
Е	1. 200	1. 400	0.047	0. 055	
E1	2. 250	2. 550	0.089	0.100	
e	0.95	OTYP	0. 037TYP		
el	1.800	2. 000	0.071	0.079	
L	0.55	OREF	0. 022REF		
L1	0.300	0. 500	0.012	0.020	
θ	0°	8°	0°	8°	

■SOT-23 Soldering Footprint





2SB1197



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