

Features

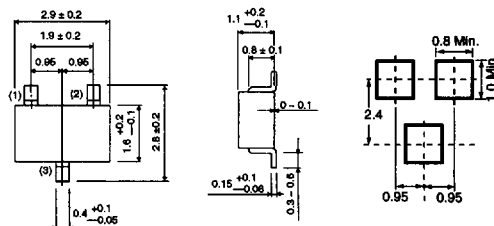
- available in SMT3 (SMT, SC-59) package
- package marking: 2SB1197K; AH★, where ★ is h_{FE} code
- low collector saturation voltage
 $V_{CE(sat)} \leq -0.5 \text{ V}$ for
 $I_C/I_B = -0.5 \text{ A/-50 mA}$
- $I_C = -800 \text{ mA}$

Applications

- low frequency power amplifier

Dimensions (Units : mm)

2SB1197K (SMT3)



- (1) Emitter
 (2) Base
 (3) Collector

Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Collector-to-base voltage	V_{CBO}	-40	V
Collector-to-emitter voltage	V_{CEO}	-32	V
Emitter-to-base voltage	V_{EBO}	-5	V
Collector current	I_C	-800	mA
Collector dissipation	P_C	200	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 ~ +150	$^\circ\text{C}$

[查询"2SB1197KP"供应商](#)**Electrical characteristics (unless otherwise noted, $T_a = 25^\circ\text{C}$)**

Parameter	Symbol	Min	Typical	Max	Unit	Conditions
Collector-to-base breakdown voltage	BV_{CBO}	-40			V	$I_C = -50\ \mu\text{A}$
Collector-to-emitter breakdown voltage	BV_{CEO}	-32			V	$I_C = -1\ \text{mA}$
Emitter-to-base breakdown voltage	BV_{EBO}	-5			V	$I_E = -50\ \mu\text{A}$
Collector cutoff current	I_{CBO}			-0.5	μA	$V_{CB} = -20\ \text{V}$
Emitter cutoff current	I_{EBO}			-0.5	μA	$V_{EB} = -4\ \text{V}$
DC current gain	h_{FE}	82		390		$V_{CE} = -3\ \text{V}$, $I_C = -100\ \text{mA}$
Collector-to-emitter saturation voltage	$V_{CE(sat)}$			-0.5	V	$I_C/I_B = -0.5\ \text{A/-50 mA}$
Transition frequency	f_T	50	200		MHz	$V_{CE} = -5\ \text{V}$, $I_E = 50\ \text{mA}$, $f = 100\ \text{MHz}$
Output capacitance	C_{ob}		12	30	pF	$V_{CB} = -10\ \text{V}$, $I_E = 0\ \text{A}$, $f = 1\ \text{MHz}$

 h_{FE} rankings

Item	P	Q	R
h_{FE}	82 ~ 180	120 ~ 270	180 ~ 390

Electrical characteristic curves

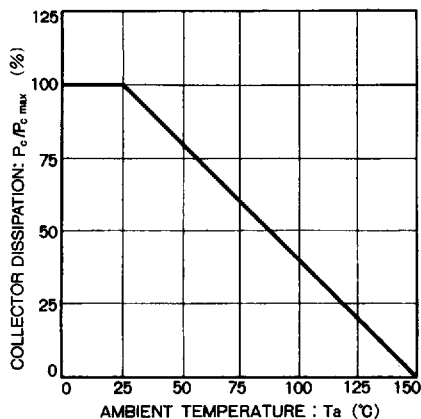


Figure 1

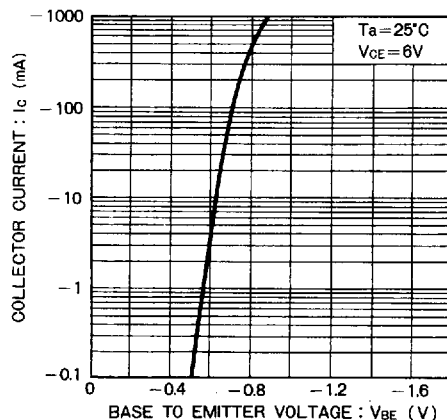


Figure 2

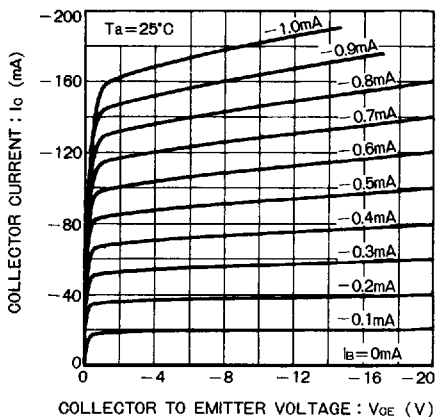


Figure 3

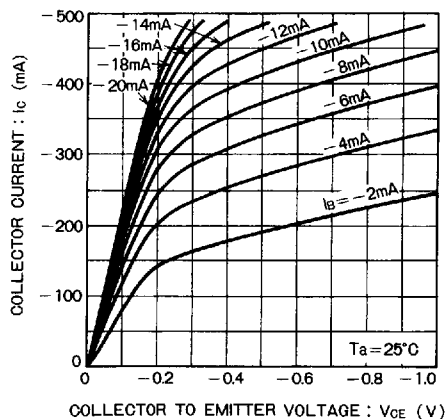


Figure 4

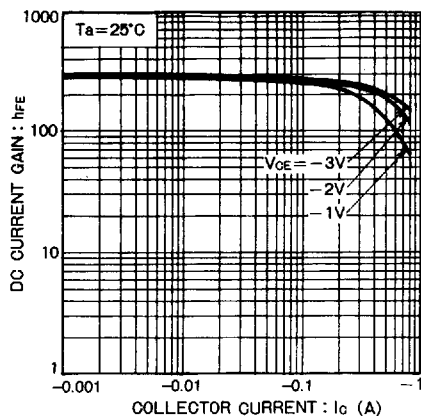


Figure 5

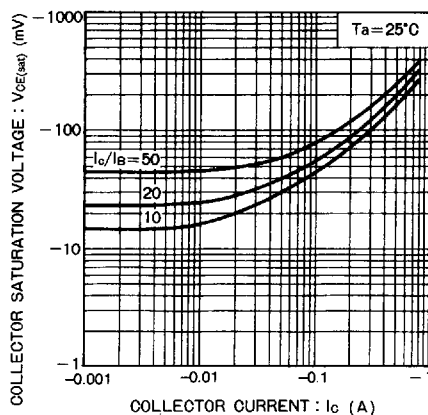
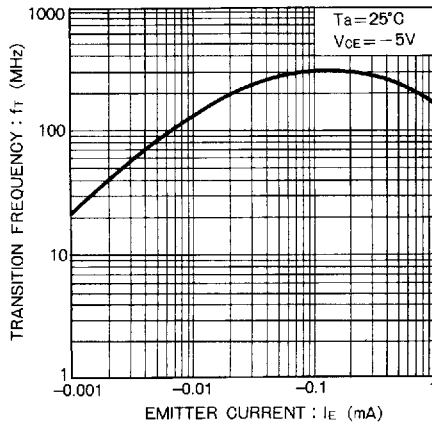
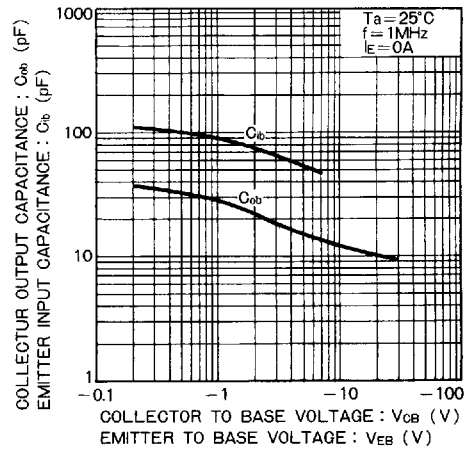


Figure 6

[查询"2SB1197KP"供应商](#)**Figure 7****Figure 8****Ordering information**

Package	Tape
Code	T146
Basic order quantity	3000
2SB1197K	★
★ = Standard, ☆ = Semi-standard, * = Special order	