

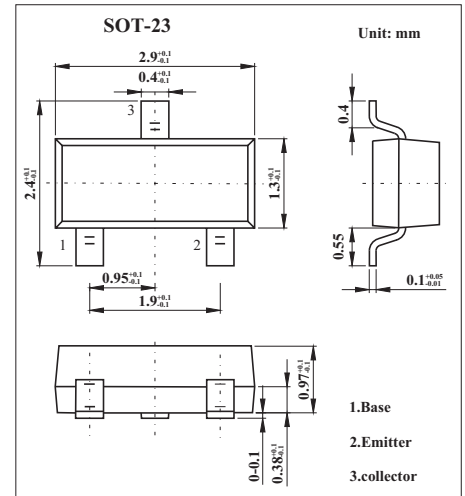
SOT-23 Plastic-Encapsulate Transistors

Features

- Low $V_{CE(sat)}$, $V_{CE(sat)} \leq -0.5V$ ($I_C / I_B = -0.5A / -50mA$) .
- $I_C = -0.8A$.
- PNP silicon transistor

MECHANICAL DATA

- Case style: SOT-23 molded plastic
- Mounting position: any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector-base Voltage	V_{CBO}	-40	V
Collector-emitter Voltage	V_{CEO}	-32	V
Emitter-base Voltage	V_{EBO}	-5	V
Collector current	I_C	-0.8	A
Collector power dissipation	P_C	0.2	W
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

PACKAGE INFORMATION

Device	Package	Shipping
2SB1197	SOT-23	3000/Tape&Reel

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C = -50 \mu A$	-40			V
Collector-emitter breakdown voltage	V_{CEO}	$I_C = -1mA$	-32			V
Emitter-base breakdown voltage	V_{EBO}	$I_E = -50 \mu A$	-5			V
Collector cutoff current	I_{CBO}	$V_{CB} = -20V$			-0.5	μA
Emitter cutoff current	I_{EBO}	$V_{EB} = -4V$			-0.5	μA
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -0.5A, I_B = -50mA$			-0.5	V
DC current transfer ratio	h_{FE}	$V_{CE} = -3V, I_C = -100mA$	120		390	
Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0A, f = 1MHz$		12	30	pF
Transition frequency	f_T	$V_{CE} = -5V, I_E = 50mA, f = 100MHz$		200		MHz

hFE Classification

Marking	AHQ	AHR
Rank	Q	R
hFE	120~270	180~390