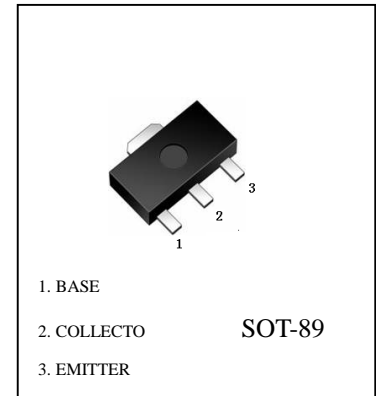


FEATURES

- Low collector saturation voltage,
- Excellent current-to-gain characteristics

2SB1386 (PNP)



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

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-30	V
Collector-Emitter Voltage	V _{CEO}	-20	V
Emitter-Base Voltage	V _{EBO}	-6	V
Collector Current -Continuous	I _C	-5	A
Collector Power dissipation	P _C	0.5	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55to +150	°C

ELECTRICAL CHARACTERISTICS (@ Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CBO}	I _C =-50μA, I _E =0	-30			V
Collector-emitter breakdown voltage	V _{CEO}	I _C =-1mA, I _B =0	-20			V
Emitter-base breakdown voltage	V _{EBO}	I _E =-50μA, I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-20V, I _E =0			-0.5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.5	μA
DC current gain	h _{FE}	V _{CE} =-2V, I _C =-500mA	82		390	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-4A, I _B =-100mA			-1	V
Transition frequency	f _T	V _{CE} =-6V, I _C =-50mA, f=30MHz		120		MHz
Collector output capacitance	C _{ob}	V _{CB} =-20V, I _E =0, f=1MHz		60		pF

CLASSIFICATION OF h_{FE}

Rank	P	Q	R
Range	82-180	120-270	180-390
Marking	BHP	BHQ	BHR

2SB1386 Typical Characteristics

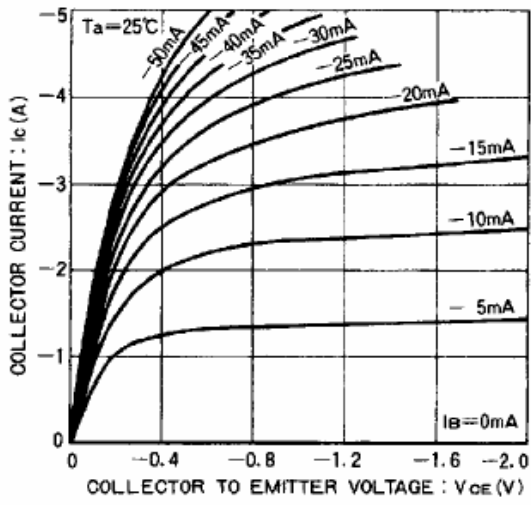


Figure 1

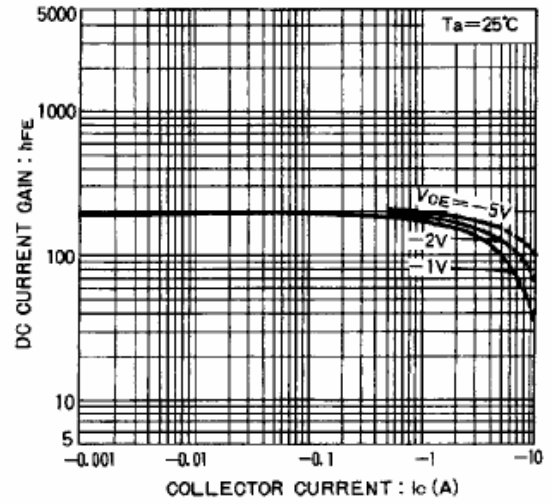


Figure 2

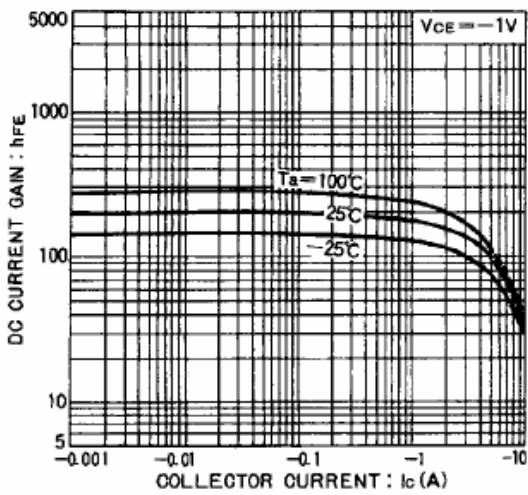


Figure 3

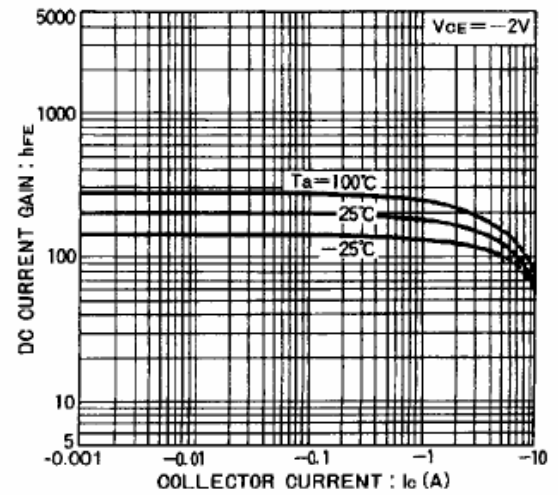


Figure 4