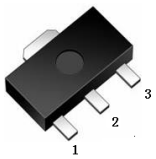
FEATURES

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

2SB1386 (PNP)



1. BASE
2. COLLECTO
3. EMITTER

SOT-89

Maximum Ratings (Ta=25 ℃ 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	℃
Storage Temperature	Tstg	-55to +150	℃

ELECTRICAL CHARACTERISTICS (@ Ta=25 ℃ 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

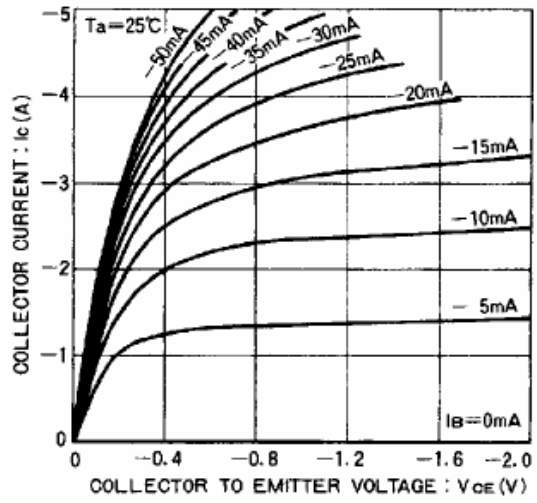


Figure 1

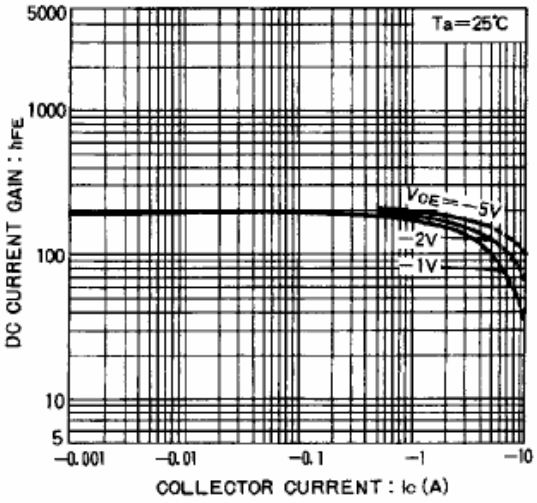


Figure 2

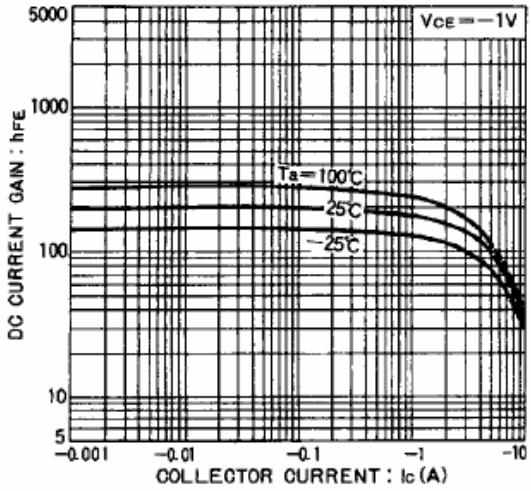


Figure 3

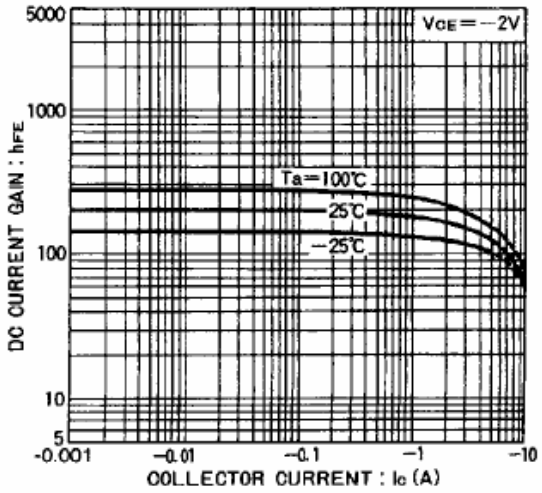


Figure 4