

● FEATURES

Power dissipation

$P_{CM} : 500\text{mW} (T_{amb}=25^{\circ}\text{C})$

Collector current

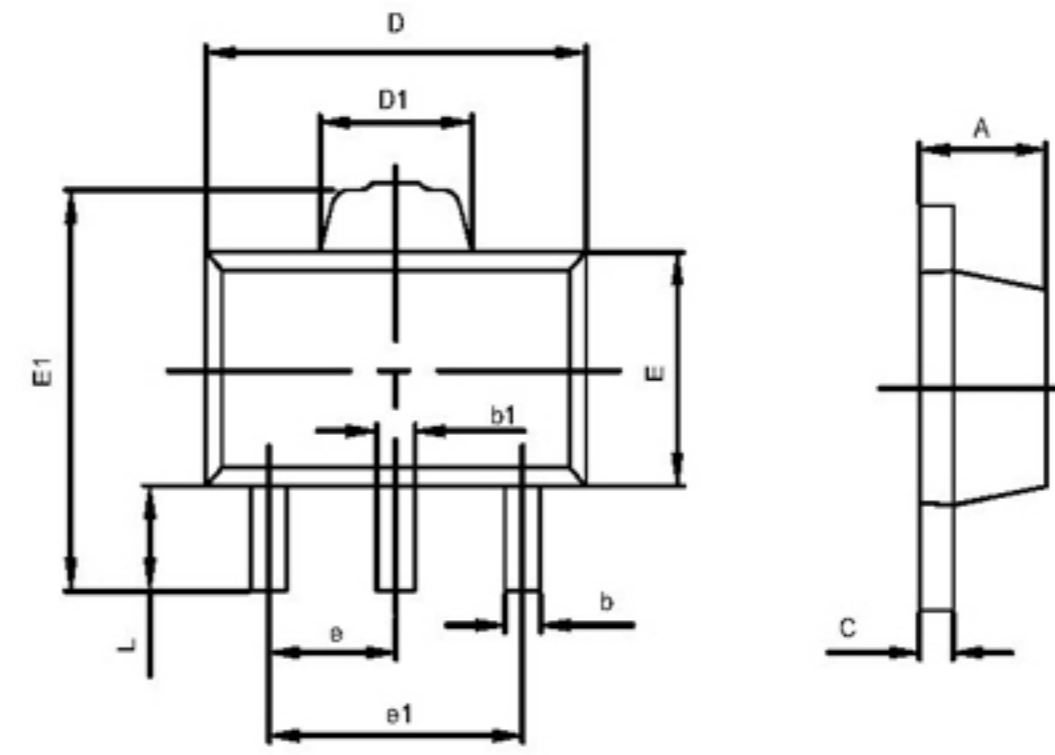
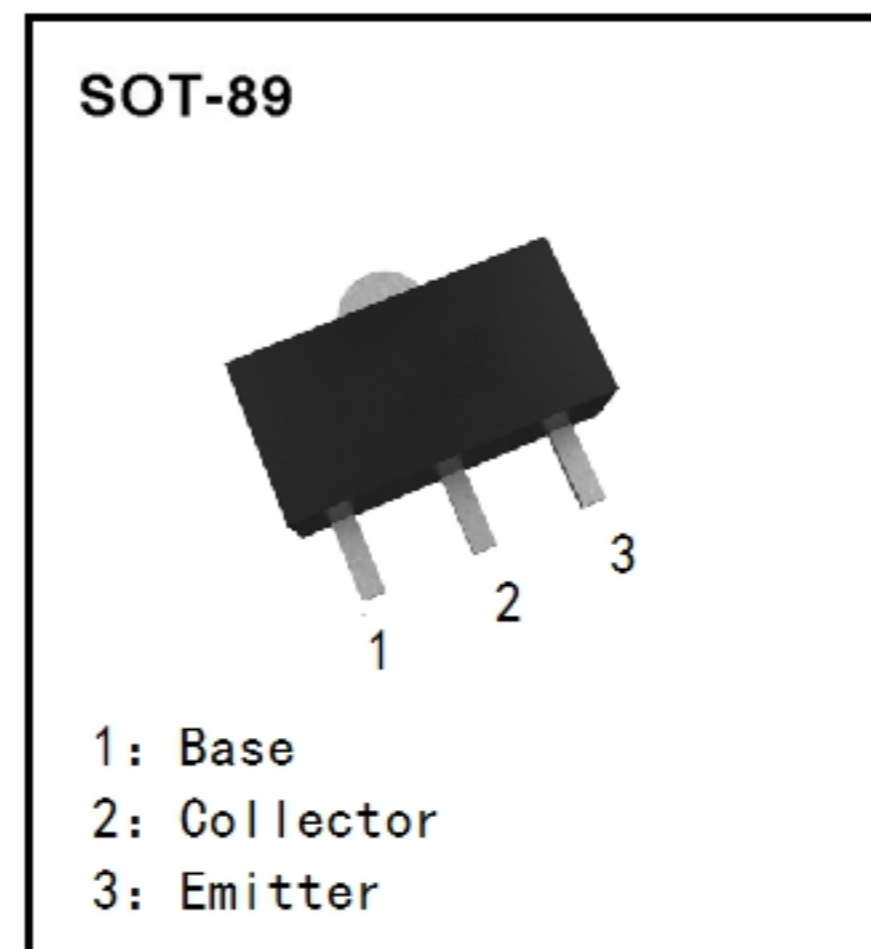
$I_{CM} : -1 \text{ A}$

Collector-base voltage

$V_{B(BR)CBO} : -25 \text{ V}$

Operating and storage junction temperature range

$T_J, T_{stg} : -55^{\circ}\text{C} \text{ to } +150^{\circ}\text{C}$



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	1.400	1.800	0.055	0.071
b	0.320	0.520	0.013	0.020
b1	0.380	0.560	0.014	0.022
c	0.350	0.440	0.014	0.017
D	4.400	4.800	0.173	0.181
D1	1.400	1.800	0.055	0.071
E	2.300	2.800	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500TYP		0.060TYP	
e1	2.900	3.100	0.114	0.122
L	0.900	1.100	0.035	0.043

● ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}\text{C}$ unless otherwise specified) CLASSIFICATION OF $h_{FE(1)}$

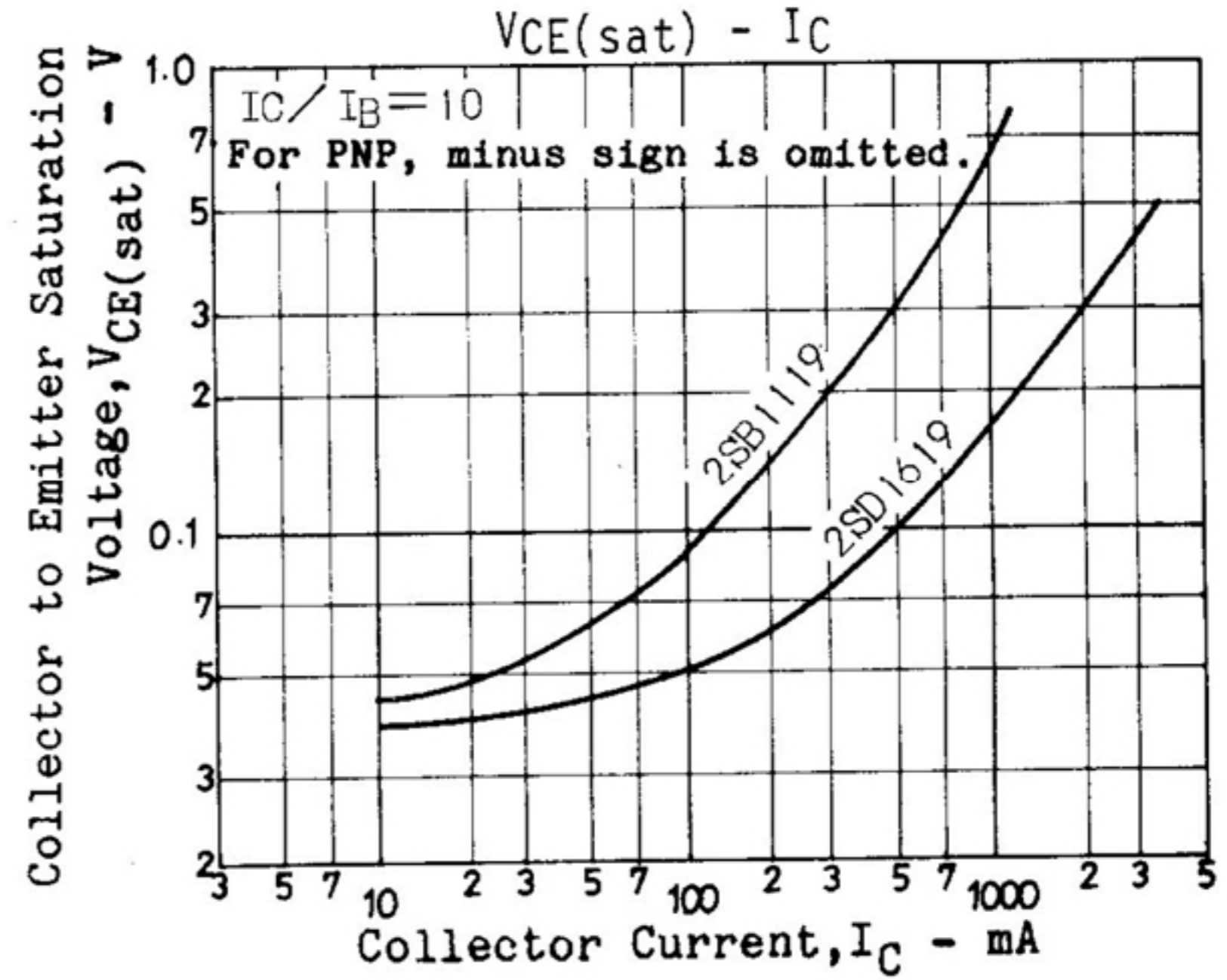
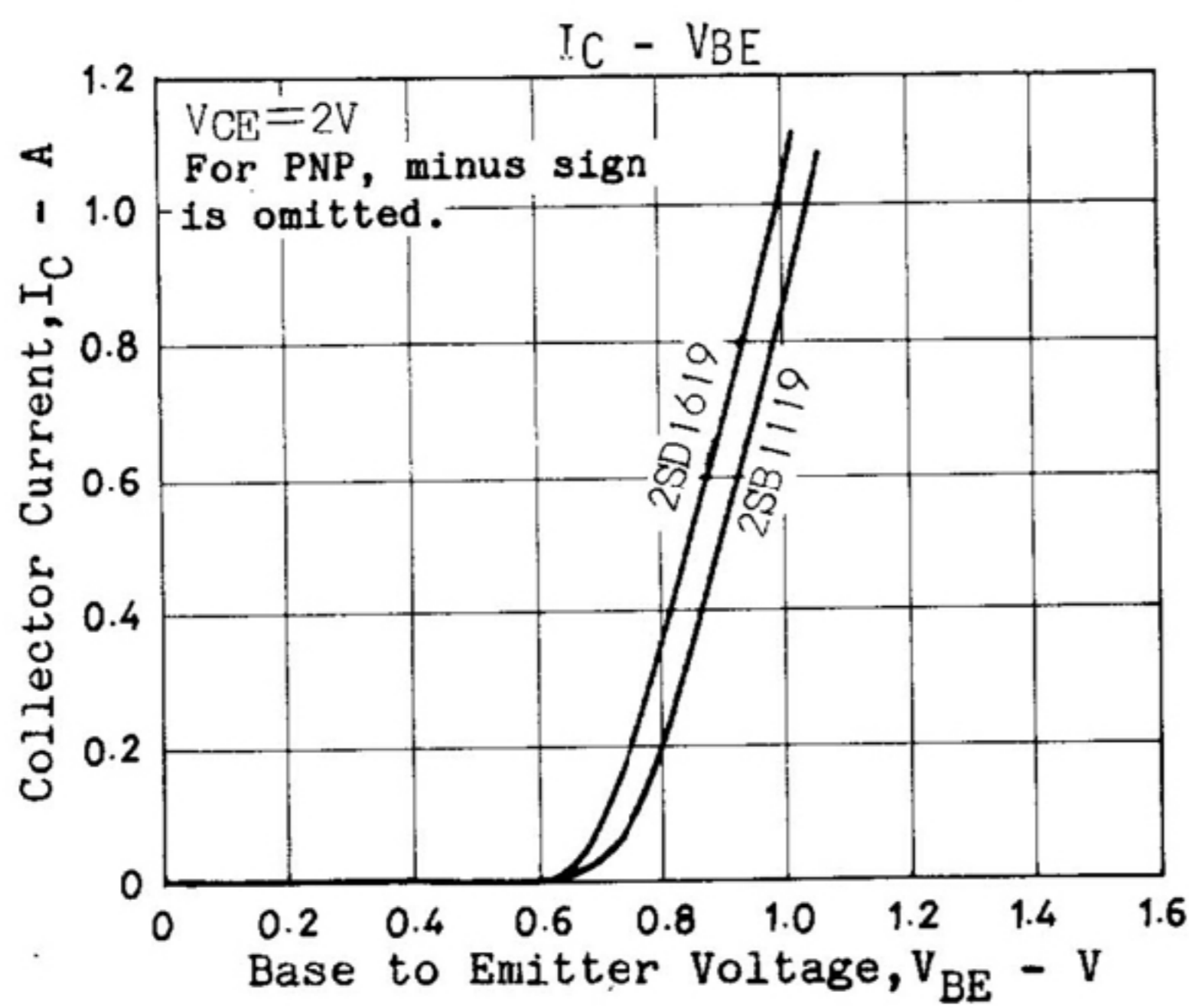
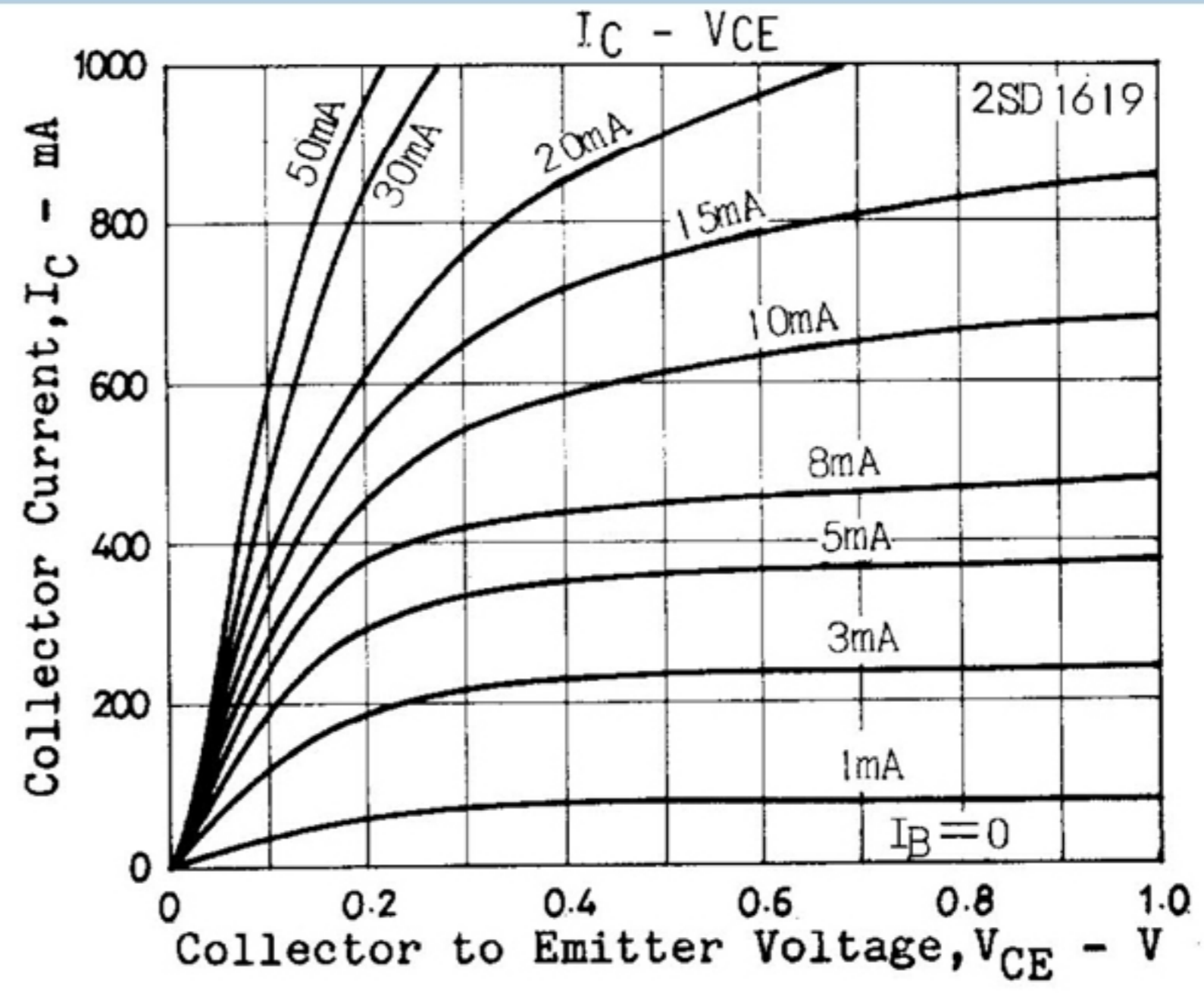
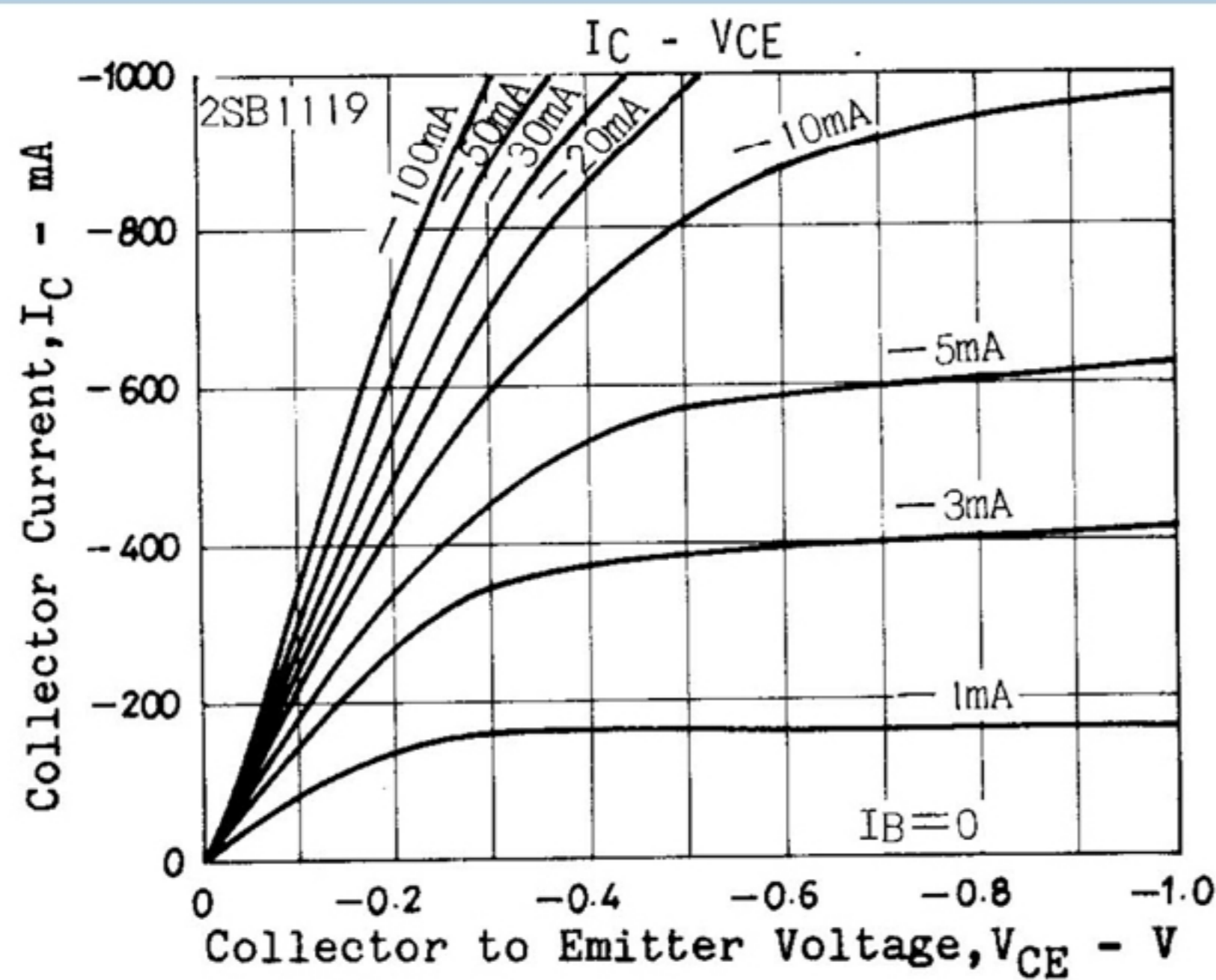
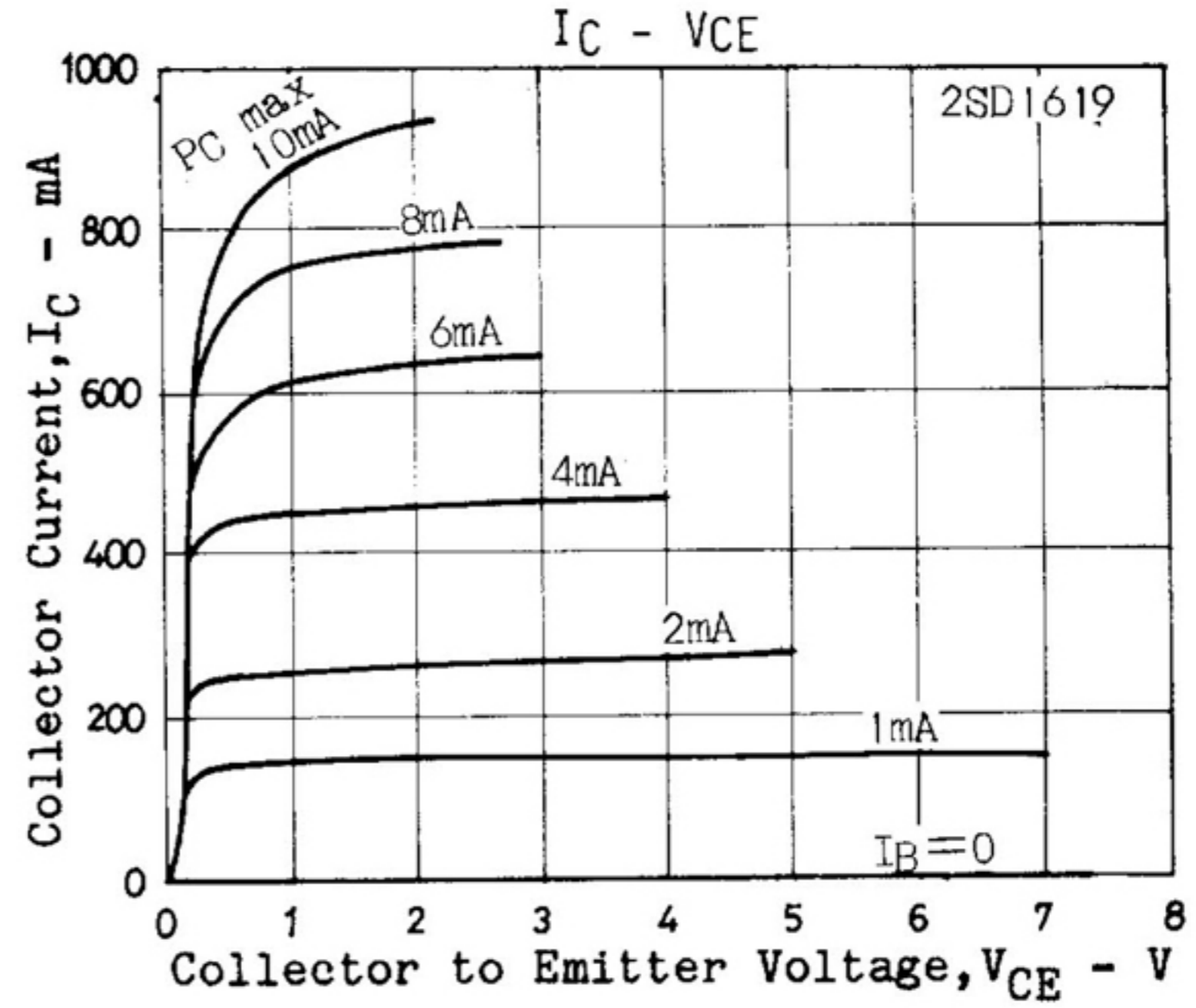
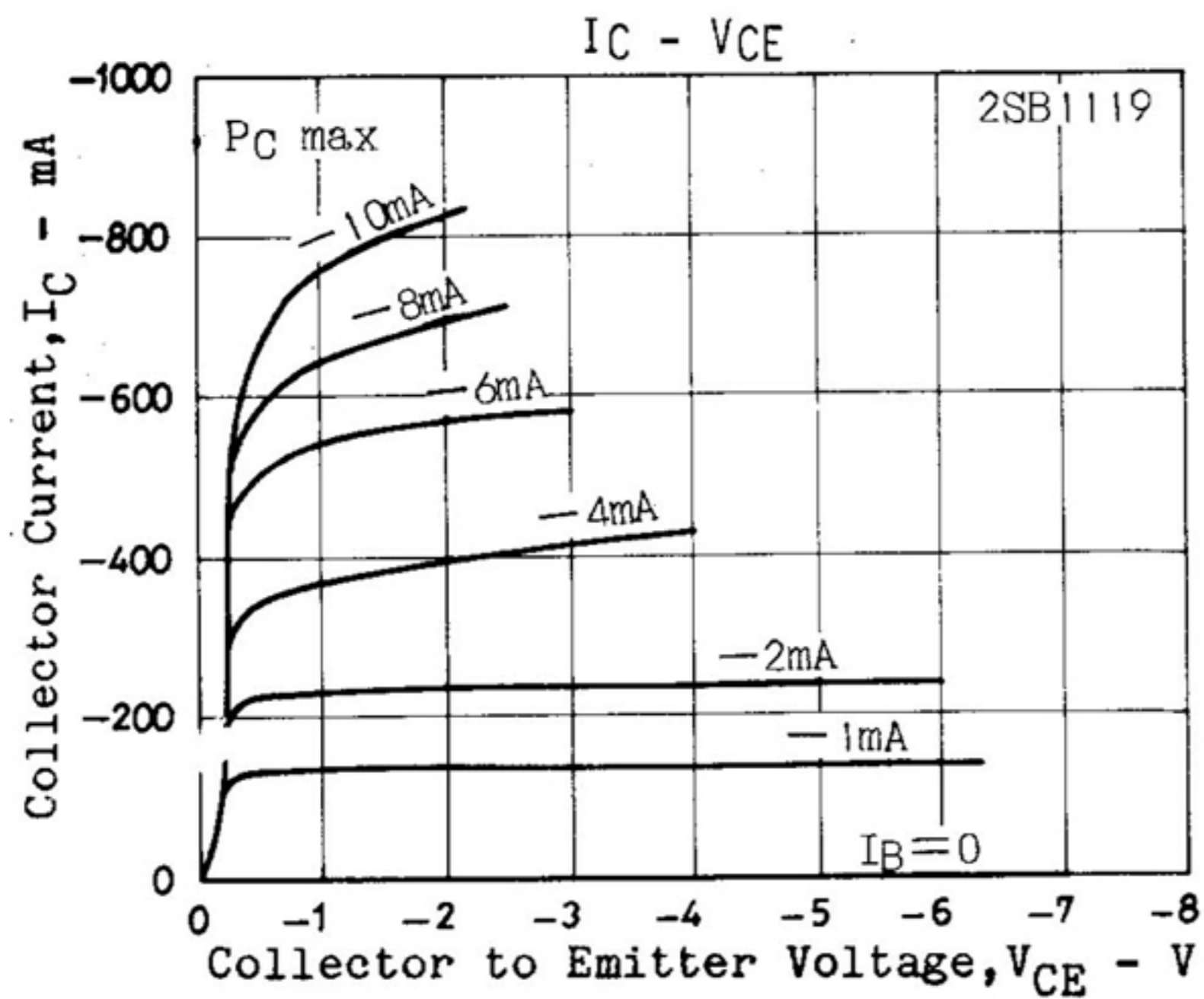
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -10 \mu\text{A}, I_E = 0$	-25			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1 \text{ mA}, I_B = 0$	-25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10 \mu\text{A}, I_C = 0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = -20 \text{ V}, I_B = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -4 \text{ V}, I_C = 0$			-0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = -2 \text{ V}, I_C = -50 \text{ mA}$	100		560	
	$h_{FE(2)}$	$V_{CE} = -2 \text{ V}, I_C = -1 \text{ A}$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -0.5 \text{ A}, I_B = -50 \text{ mA}$			-0.7	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -0.5 \text{ A}, I_B = -50 \text{ mA}$			-1.2	V
Transition frequency	f_T	$V_{CE} = -10 \text{ V}, I_C = -50 \text{ mA}$		180		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10 \text{ V}, f = 1 \text{ MHz}$		25		pF

Marking 2SB1119 : BB
2SD1619 : DB

● CLASSIFICATION OF $h_{FE(1)}$

Rank	R	S	T	U
Range	100-200	140-280	200-400	280-560

Electrical characteristic curves



Electrical characteristic curves

