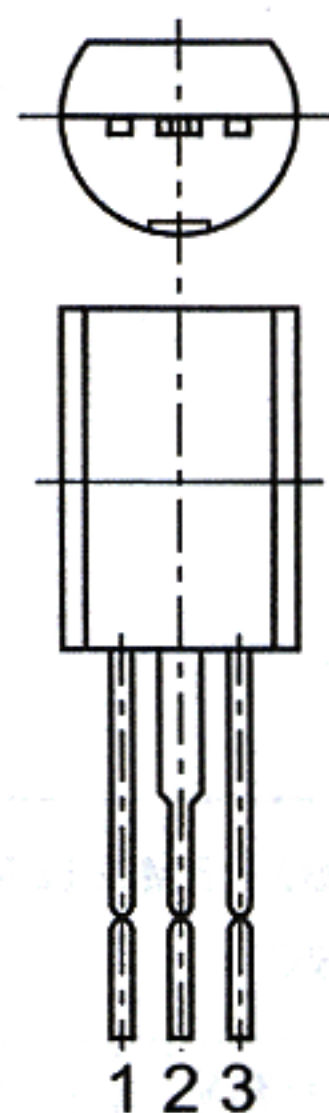


2SC2230 TRANSISTOR(NPN)



TO-92MOD

1.EMITTER

2.COLLECTOR

3.BASE

FEATURES

Power dissipation

P_{CM} : 0.8W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} : 0.1 A

Collector-base voltage

$V_{(BR)CBO}$: 200 V

Operating and storage junction temperature range

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

ELECTRICAL CHARACTERISTICS

($T_{amb}=25^{\circ}C$ unless otherwise specified)

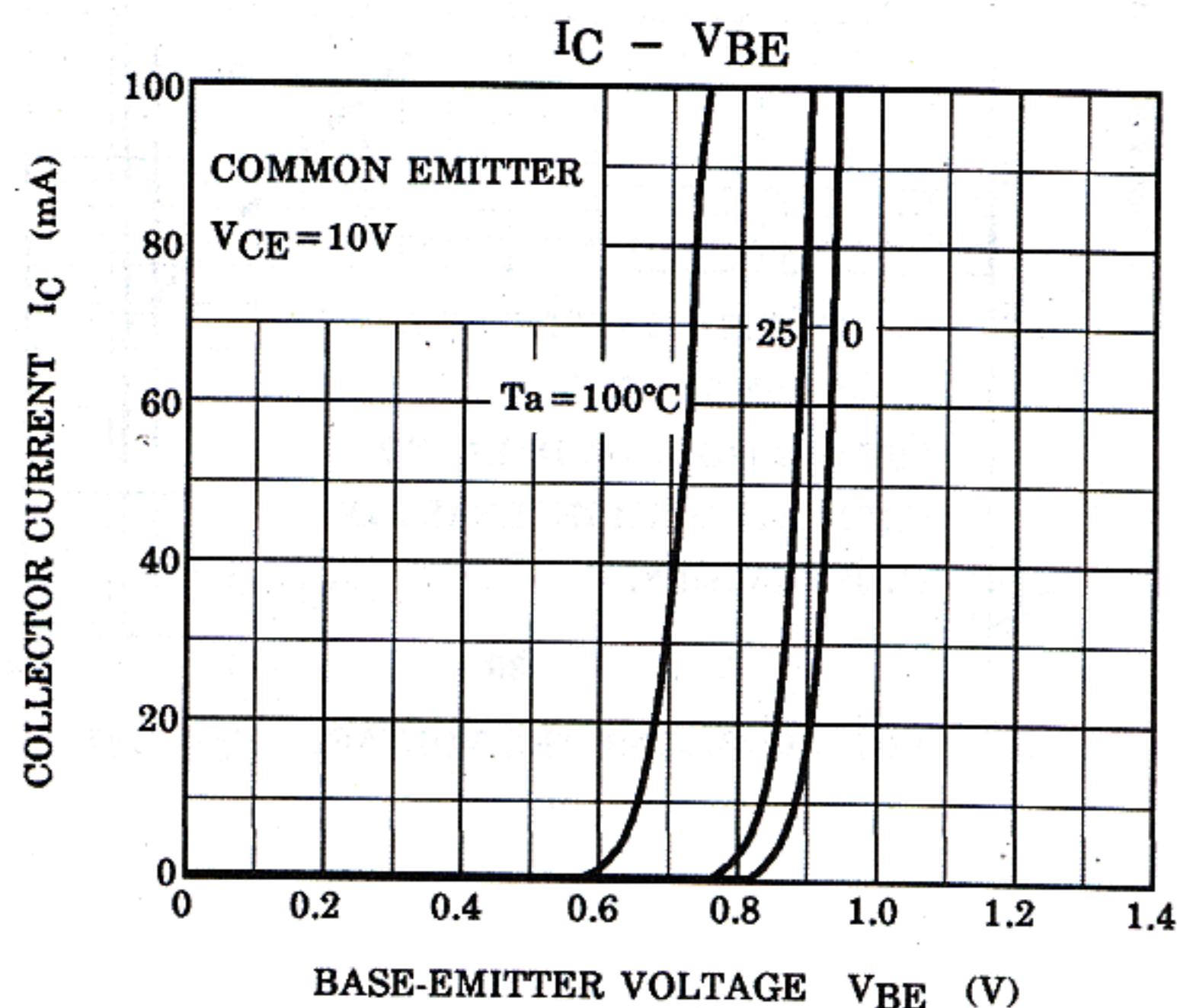
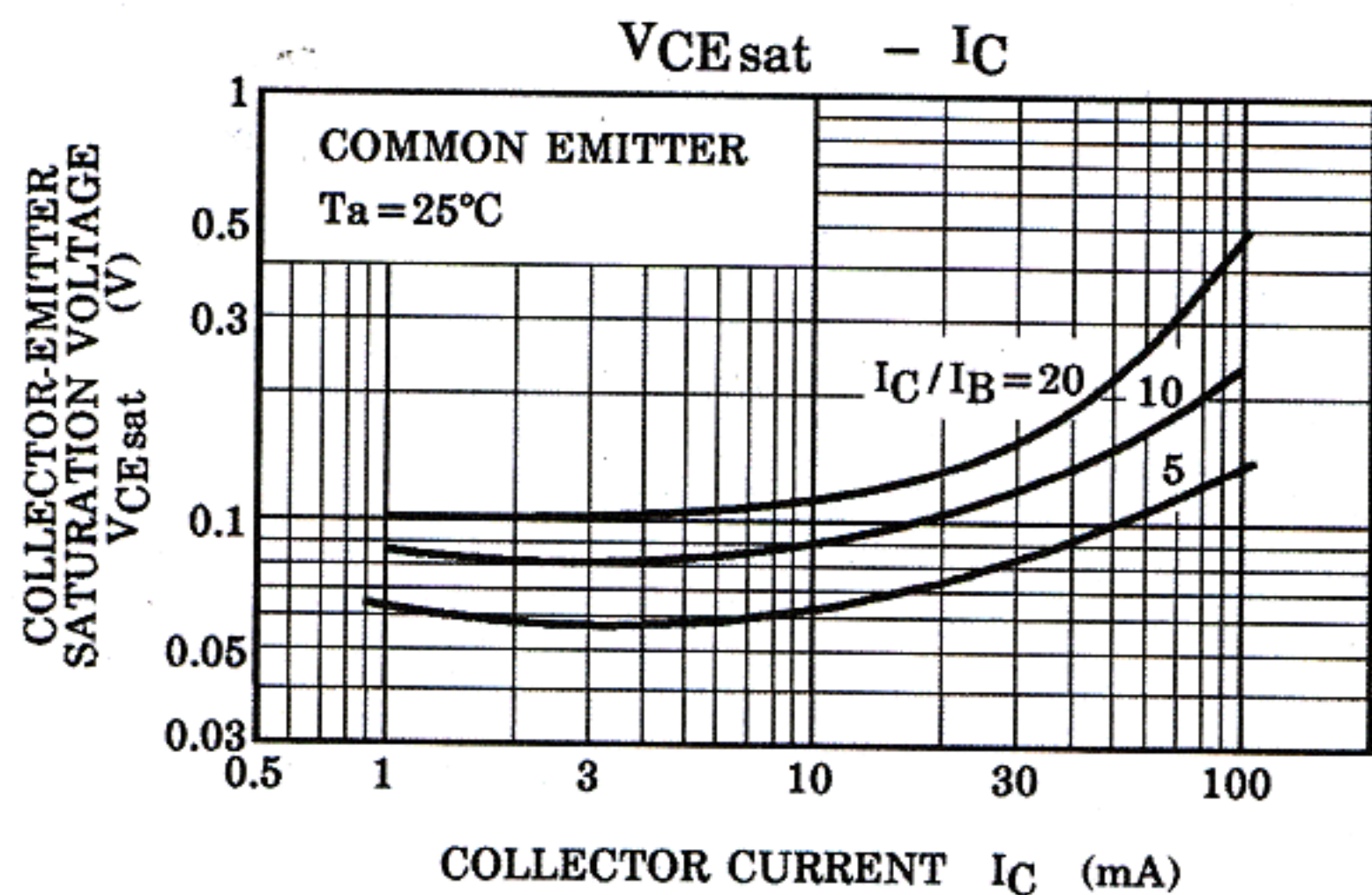
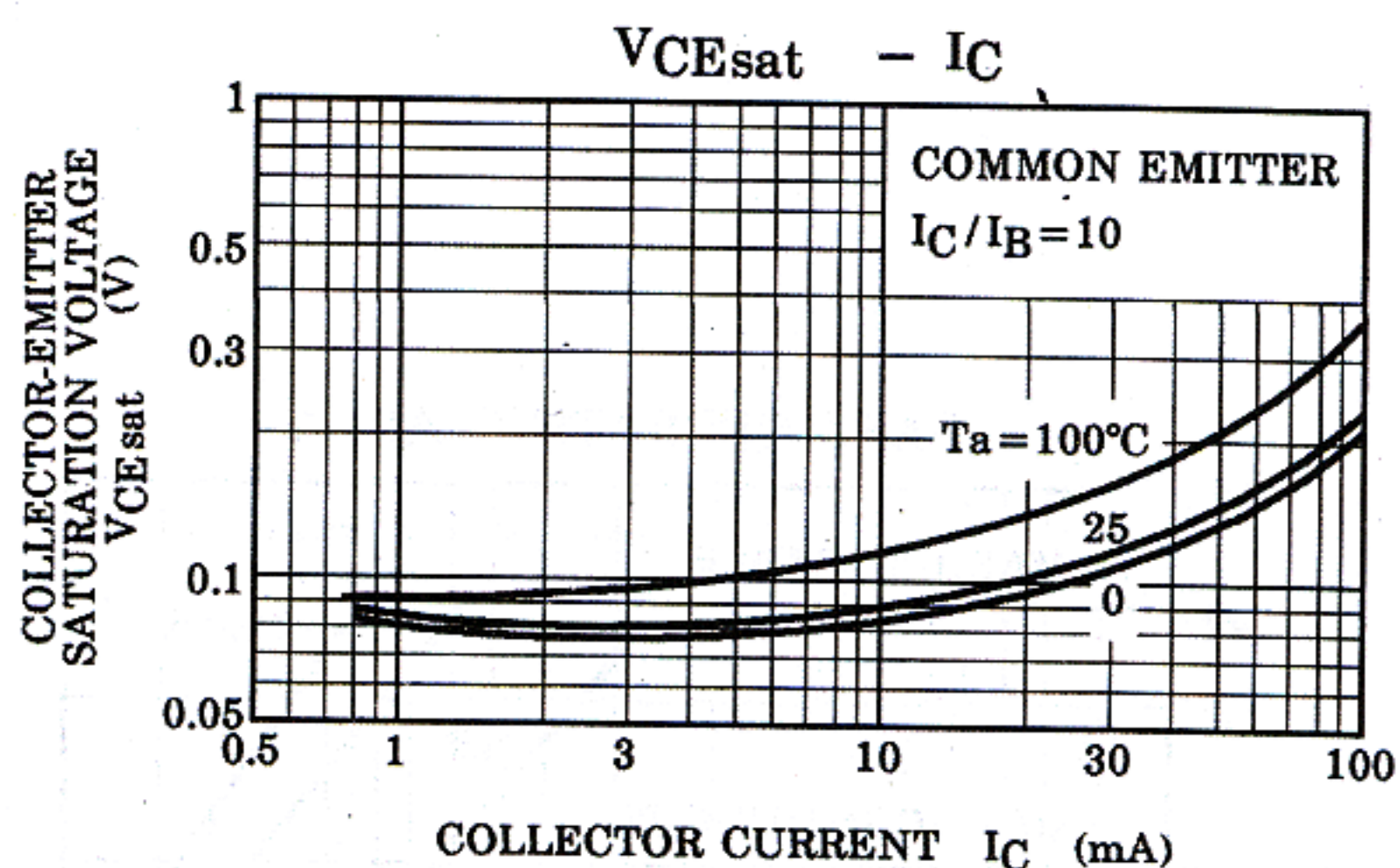
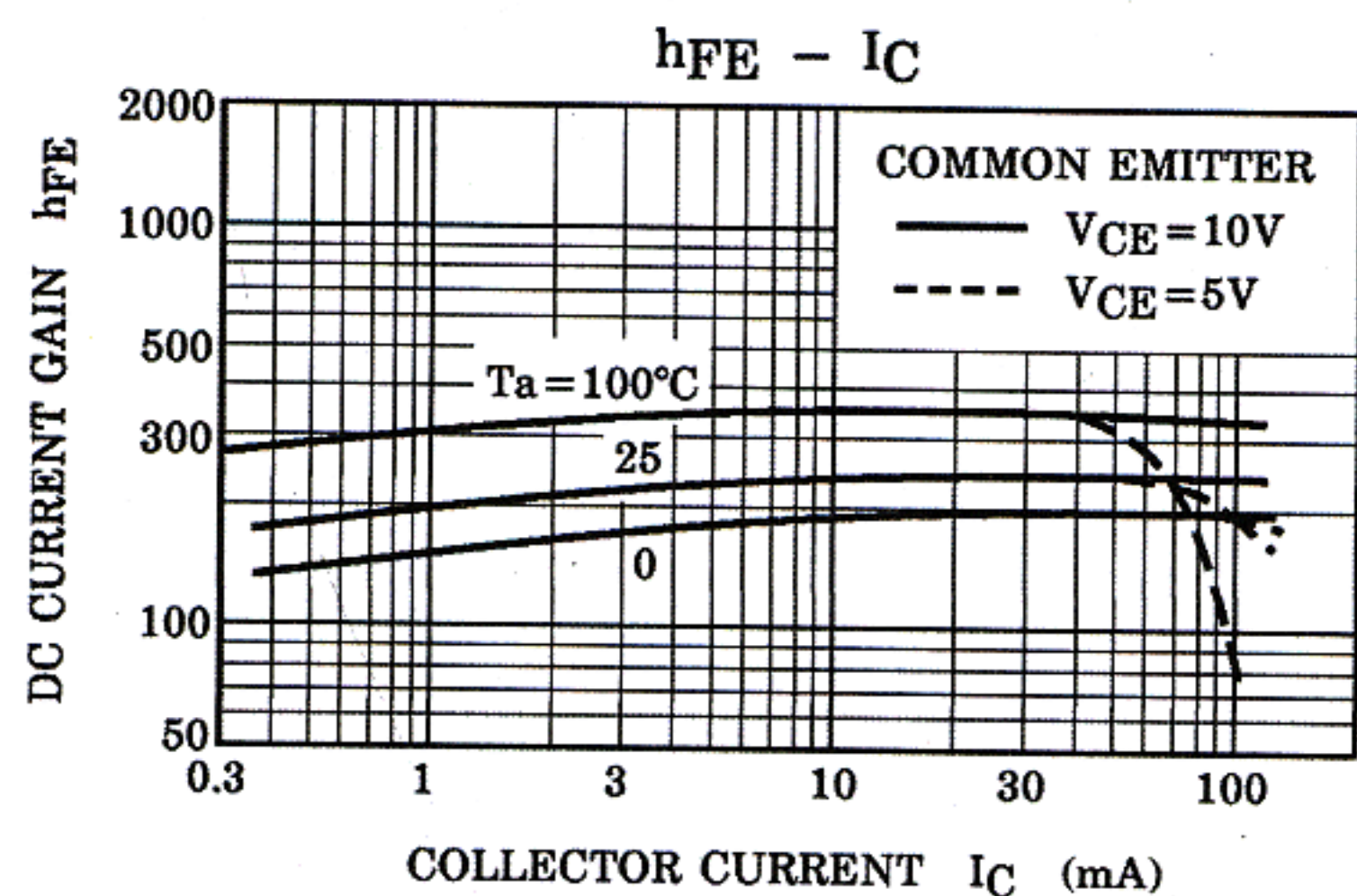
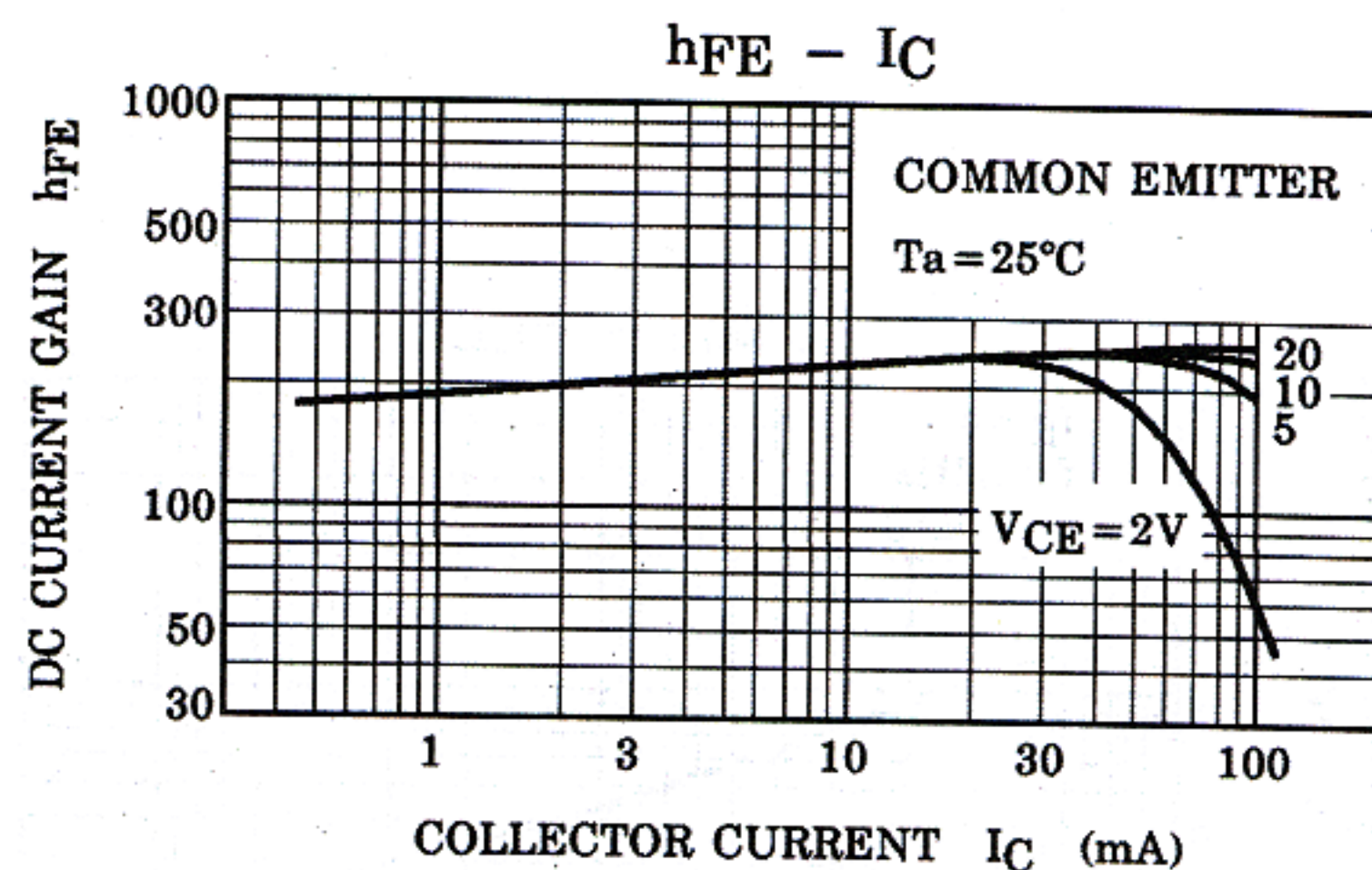
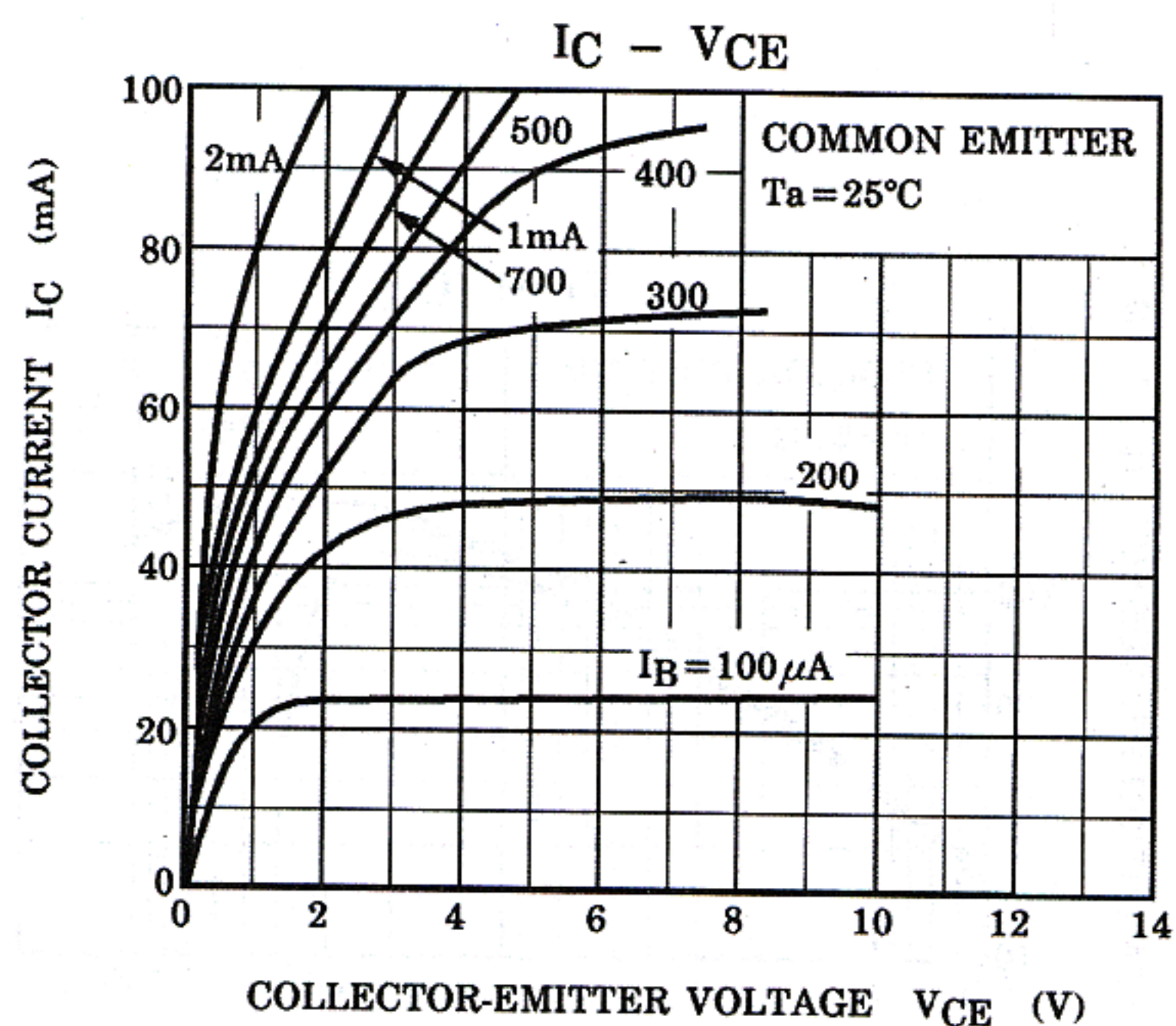
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 100 \mu A, I_E = 0$	200		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 10 mA, I_B = 0$	160		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 10 \mu A, I_C = 0$	5		V
Collector cut-off current	I_{CBO}	$V_{CB} = 200 V, I_E = 0$		0.1	μA
Collector cut-off current	I_{CER}	$V_{CB} = 160 V, R_{EB} = 10 M\Omega$		10	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 5 V, I_C = 0$		0.1	μA
DC current gain	h_{FE}	$V_{CE} = 10 V, I_C = 10 mA$	120	400	
Collector-emitter saturation voltage	V_{CEsat}	$I_C = 50 A, I_B = 5 mA$		0.5	V
Base-emitter voltage	V_{BE}	$I_C = 1 mA, V_{CE} = 10 V$		0.7	V
Transition frequency	f_T	$V_{CE} = 10 V, I_C = 10 mA$	50		MHz

CLASSIFICATION OF h_{FE}

Rank	Y	GR
Range	120-240	200-400

Typical Characteristics

2SC2230/2SC2230A



Typical Characteristics

2SC2230/2SC2230A

