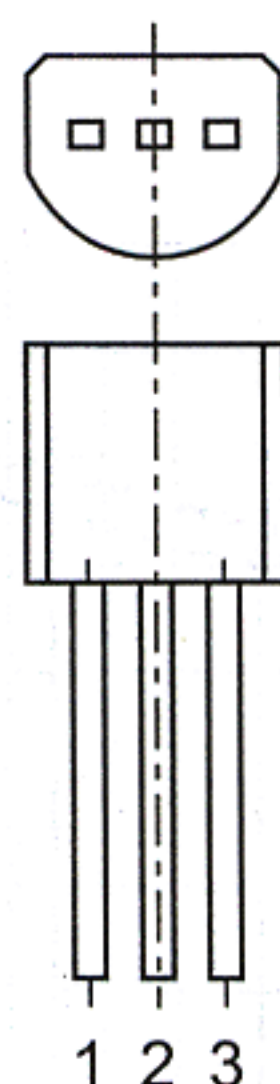


TO-92 Plastic-Encapsulate Transistors

BC556,B/BC557,A,B,C/BC558,B TRANSISTOR(PNP)



TO-92

1.COLLECTOR

2.BASE

3.EMITTER

FEATURES

Power dissipation

P_{CM} : 0.625W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} : -0.1 A

Collector-base voltage

V_{CBO} : BC556 : -80V

BC557 : -50V

BC558 : -30V

Operating and storage junction temperature range

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

ELECTRICAL CHARACTERISTICS

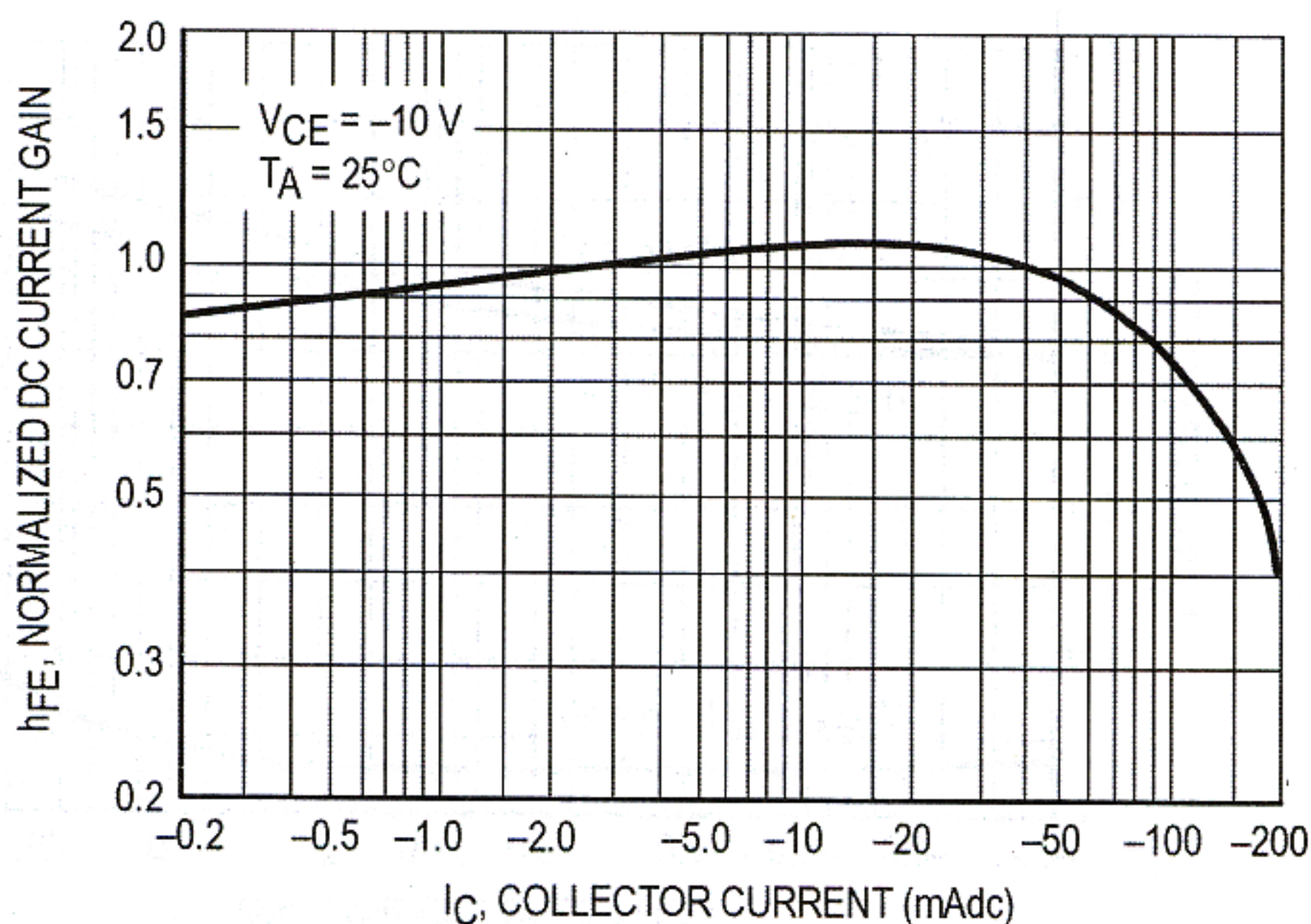
($T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter		Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	BC556	V_{CBO}	$I_C = -100 \mu A, I_E = 0$	-80		V
	BC557			-50		
	BC558			-30		
Collector-emitter breakdown voltage	BC556	V_{CEO}	$I_C = -2 mA, I_B = 0$	-65		V
	BC557			-45		
	BC558			-30		
Emitter-base breakdown voltage		V_{EBO}	$I_E = -100 \mu A, I_C = 0$	-5		V
Collector cut-off current	BC556	I_{CBO}	$V_{CB} = -70 V, I_E = 0$		-0.1	μA
	BC557		$V_{CB} = -45 V, I_E = 0$			
	BC558		$V_{CB} = -25 V, I_E = 0$			
Collector cut-off current	BC556	I_{CEO}	$V_{CE} = -60 V, I_B = 0$		-0.1	μA
	BC557		$V_{CE} = -40 V, I_B = 0$			
	BC558		$V_{CE} = -25 V, I_B = 0$			
Emitter cut-off current		I_{EBO}	$V_{EB} = -5 V, I_C = 0$		-0.1	μA
DC current gain	BC556	h_{FE}	$V_{CE} = -5 V, I_C = -2 mA$	120	500	
	BC557			120	800	
	BC558			120	800	
	BC557A			120	220	
	BC556B/BC557B/BC558B			180	460	
	BC557C			420	800	
Collector-emitter saturation voltage		V_{CEsat}	$I_C = -100 mA, I_B = -5 mA$		-0.3	V
Base-emitter saturation voltage		V_{BEsat}	$I_C = -100 mA, I_B = -5 mA$		-1	V
Transition frequency		f_T	$V_{CE} = -5 V, I_C = -10 mA$ $f = 100 MHz$	150		MHz

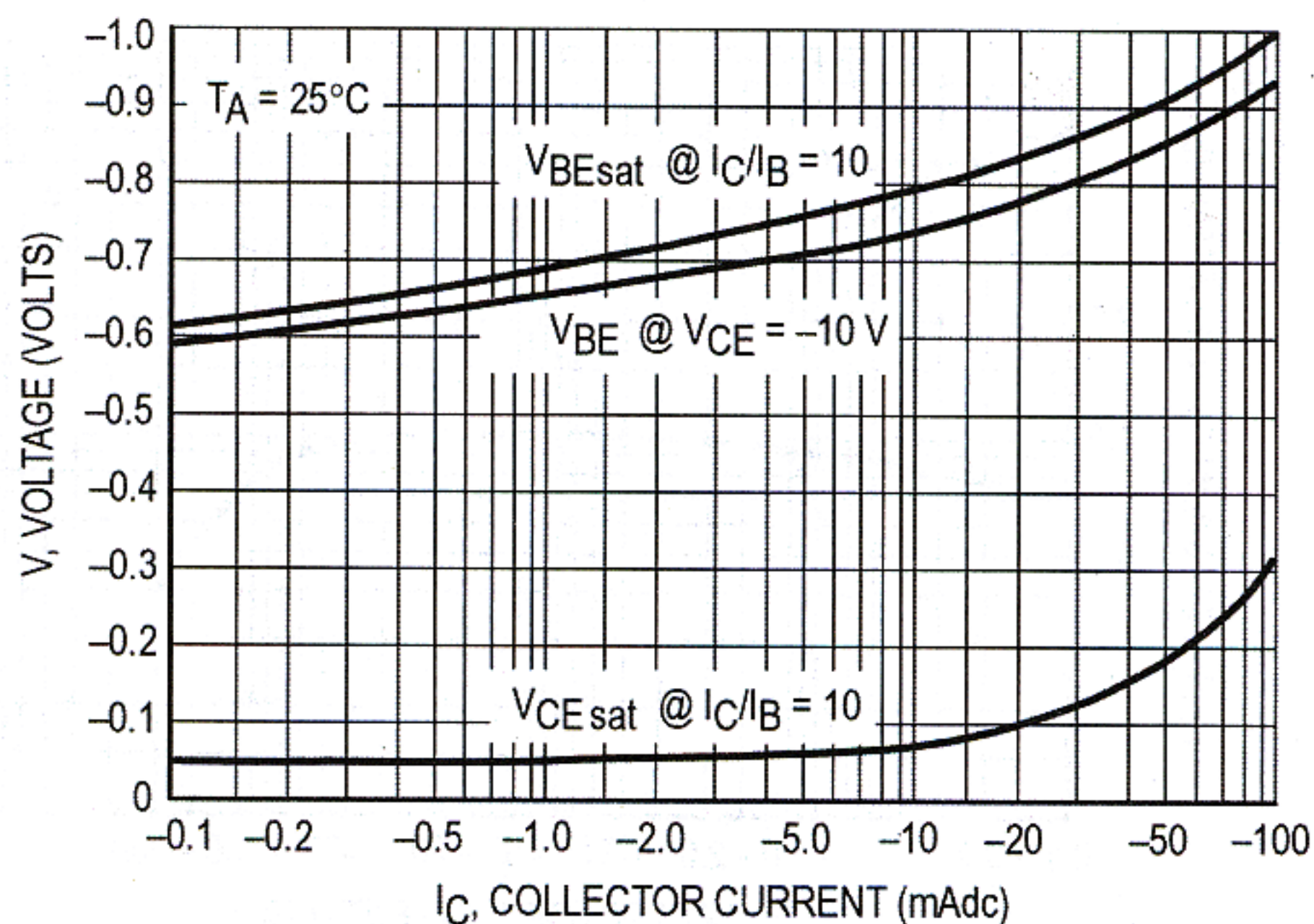
Typical Characteristics

BC556/557/558

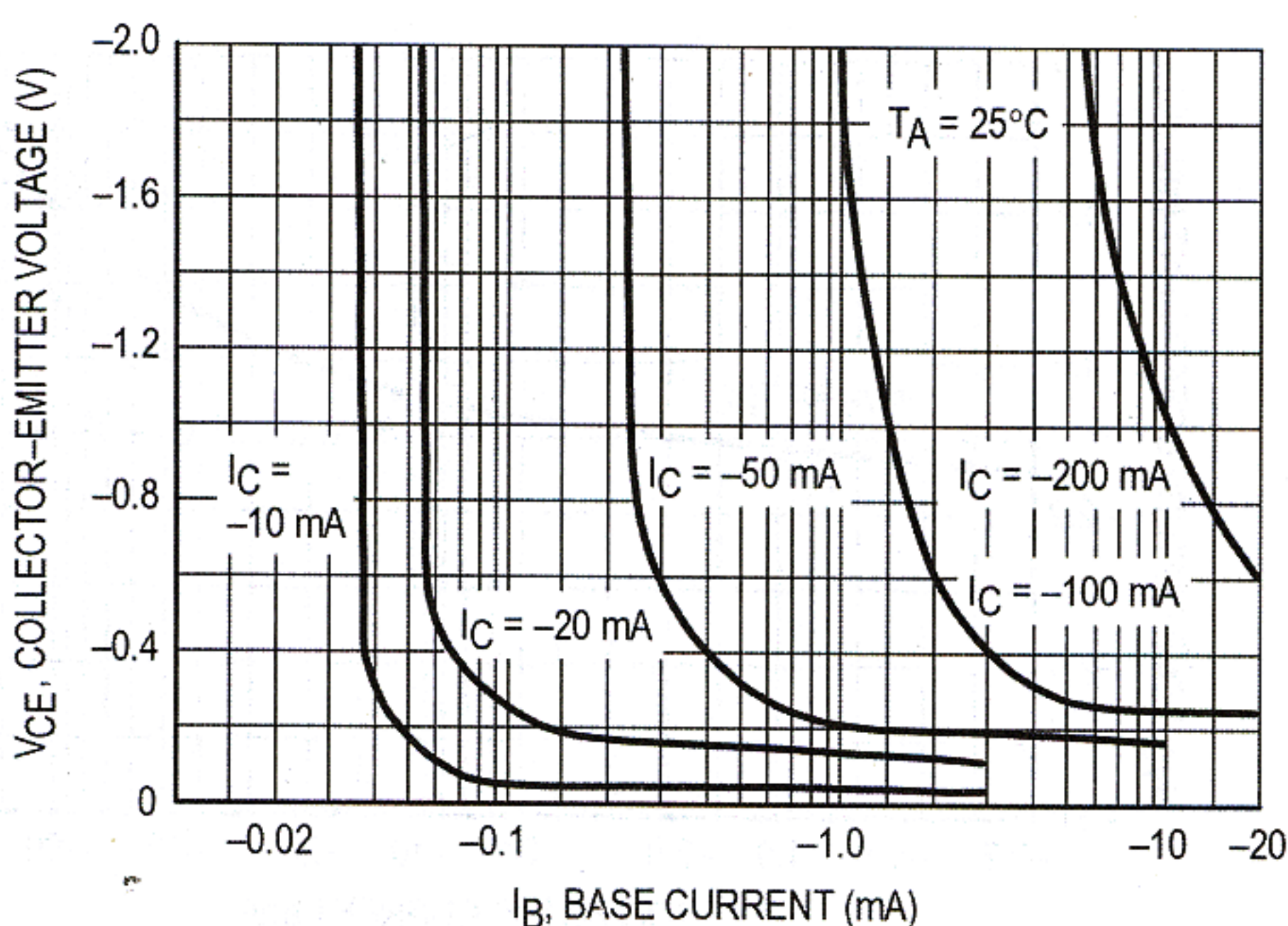
BC557/BC558



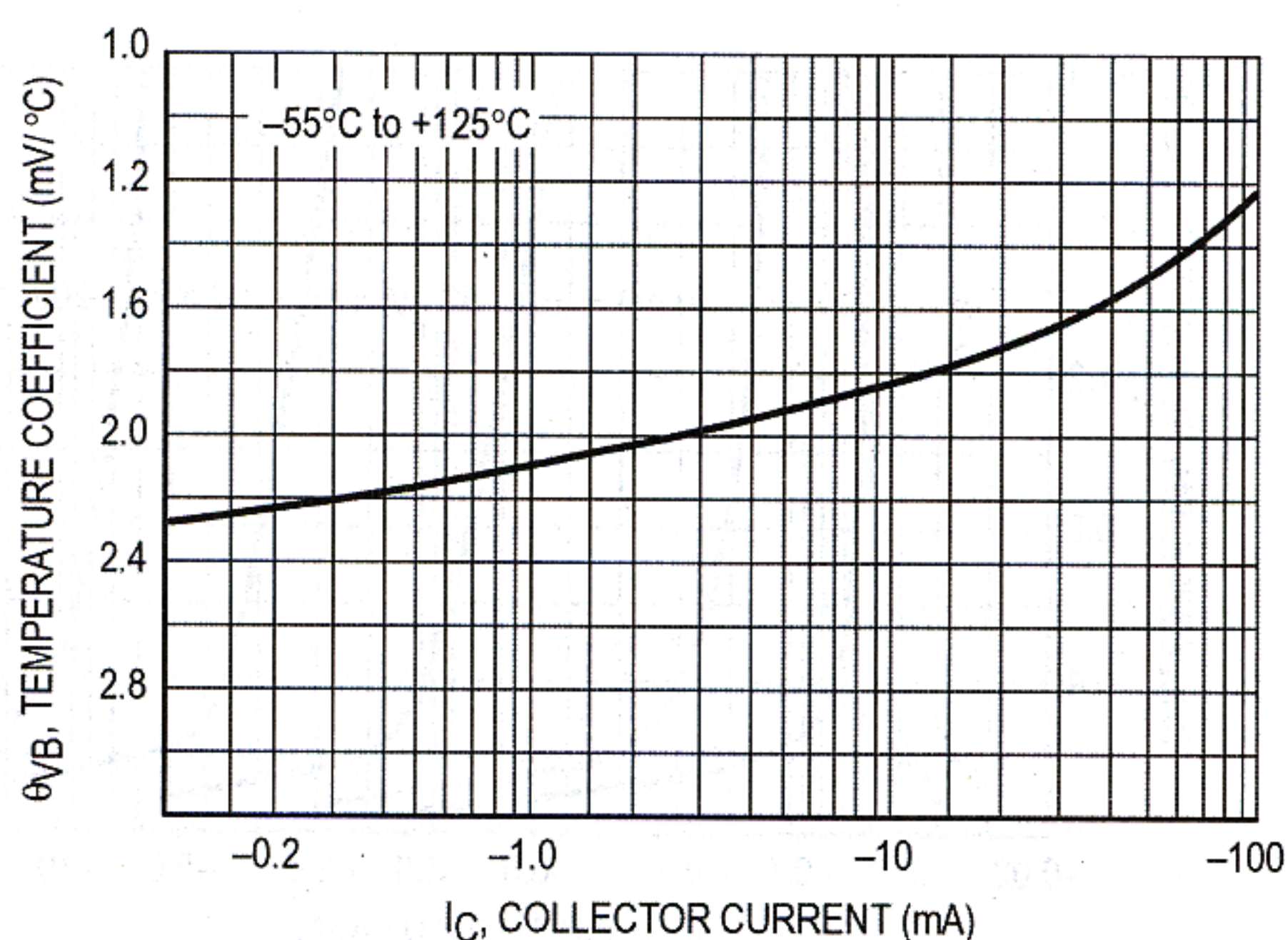
Normalized DC Current Gain



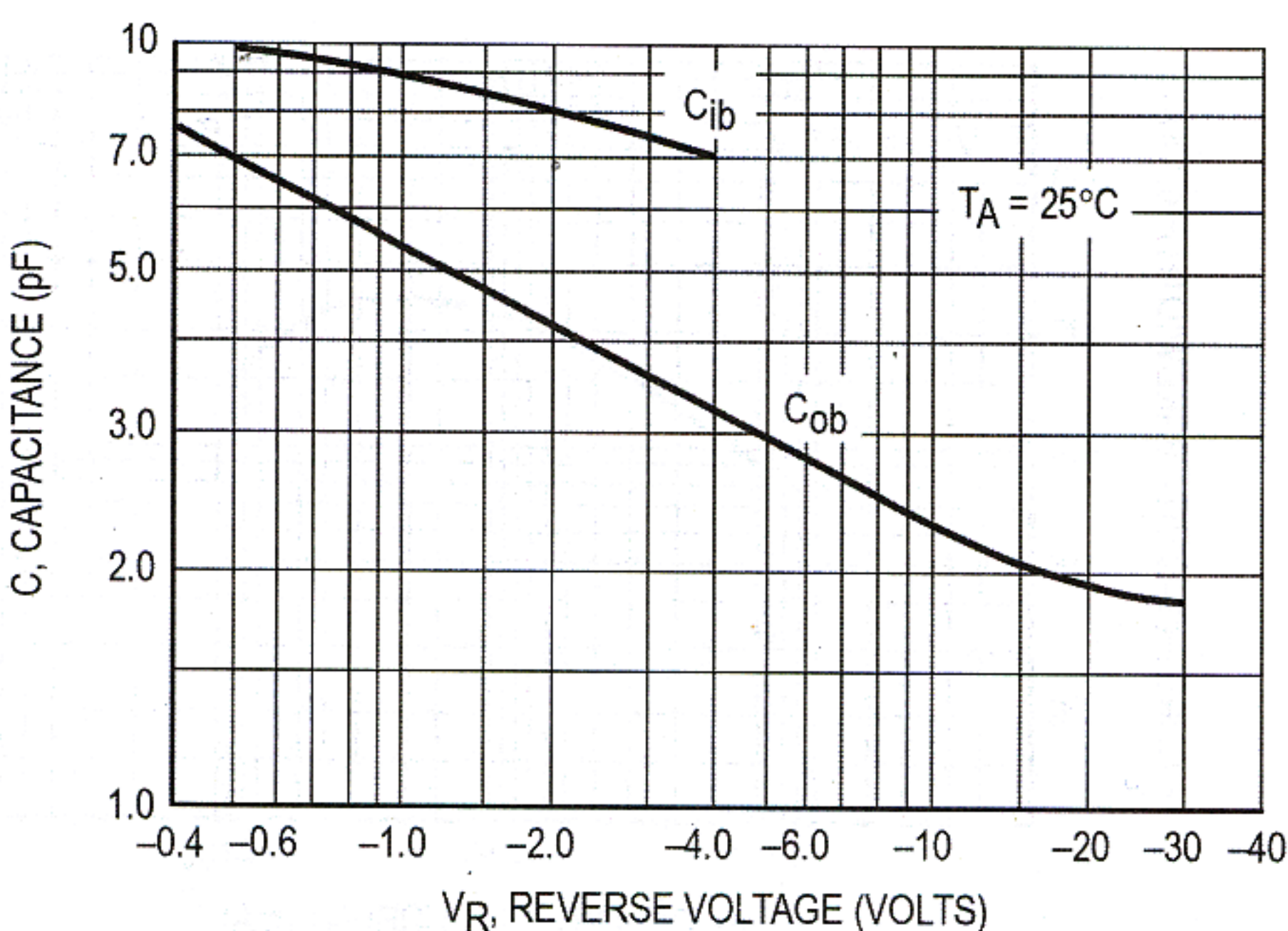
"Saturation" and "On" Voltages



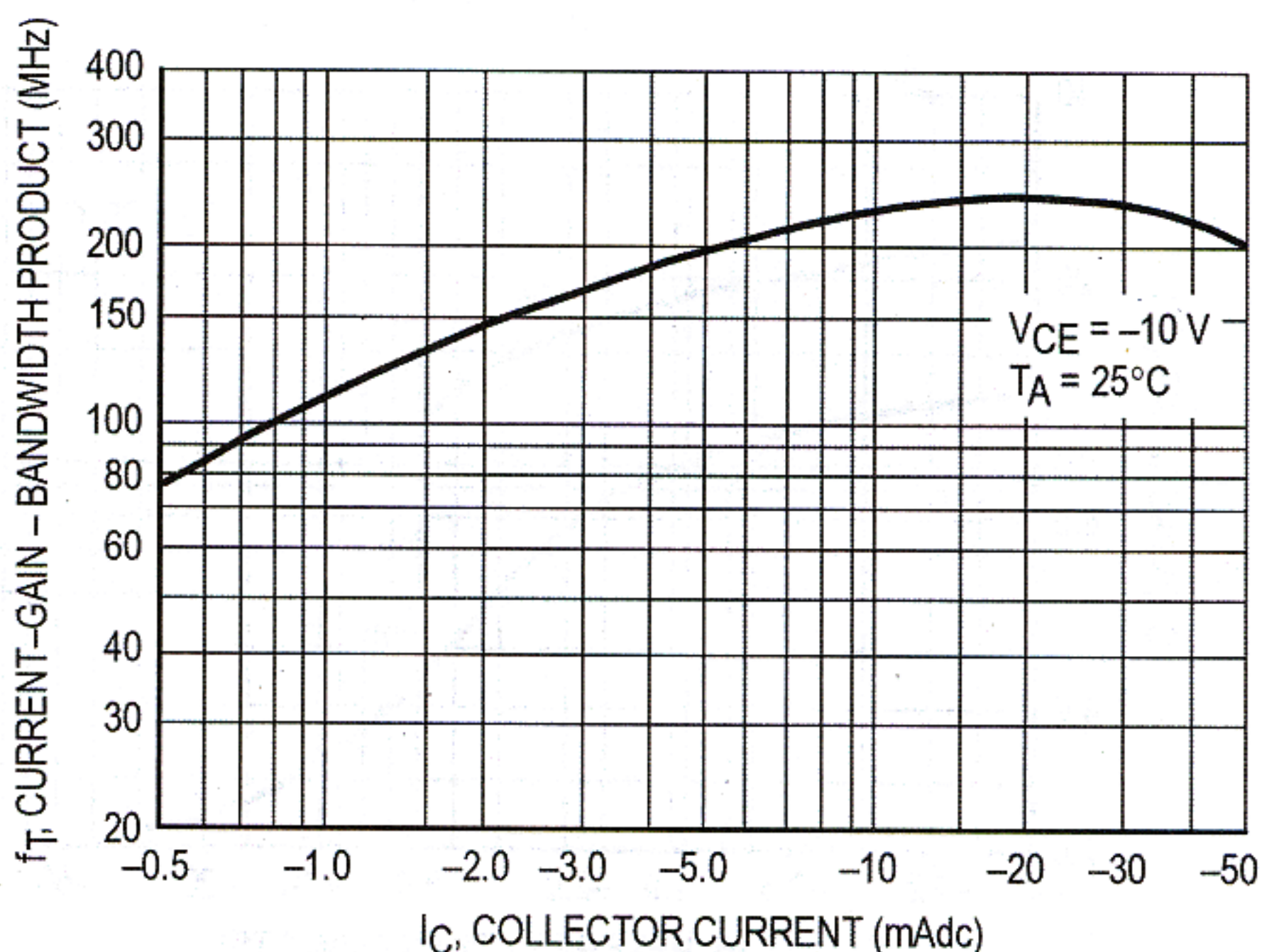
Collector Saturation Region



Base-Emitter Temperature Coefficient



Capacitances

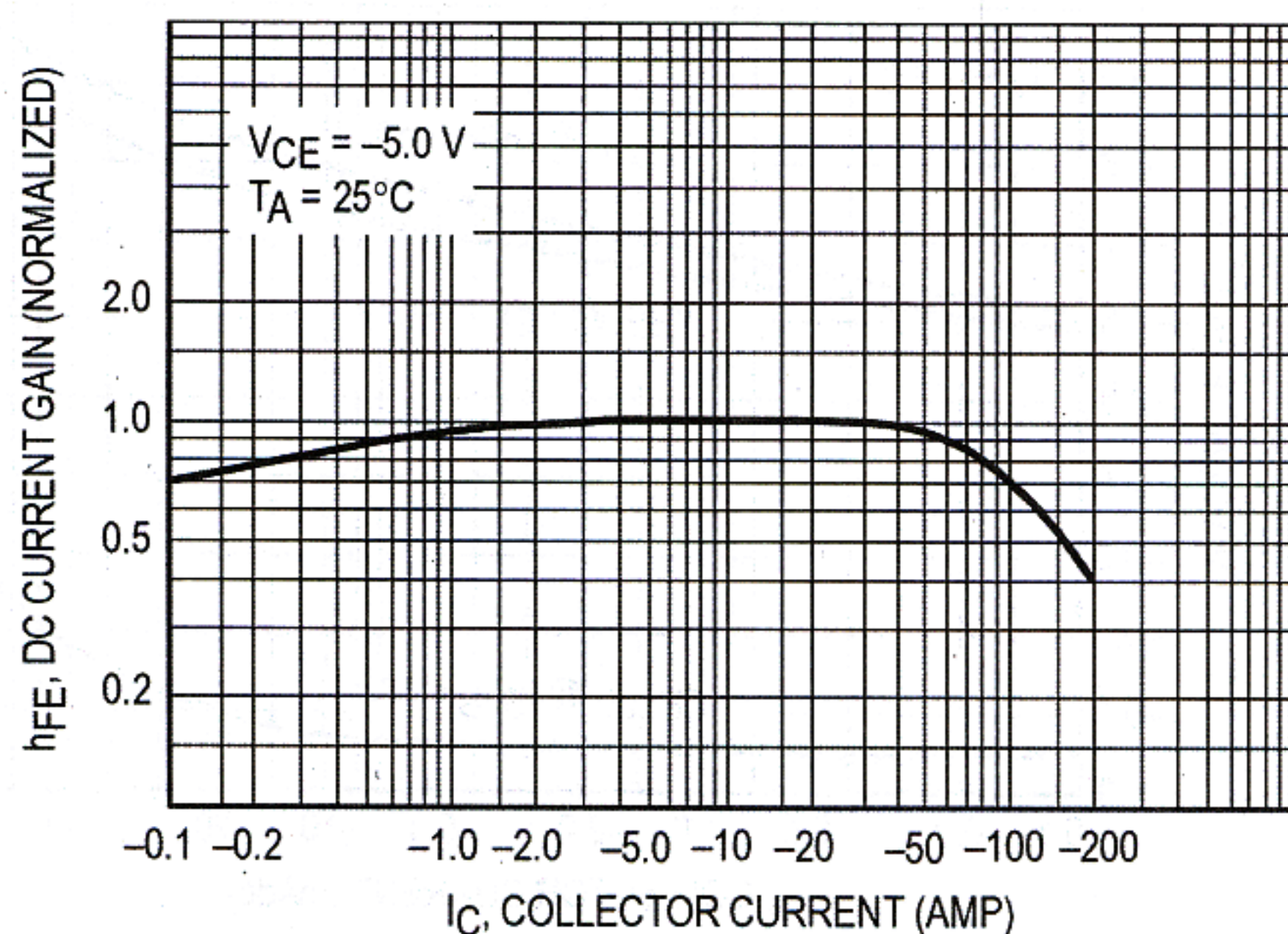


Current-Gain - Bandwidth Product

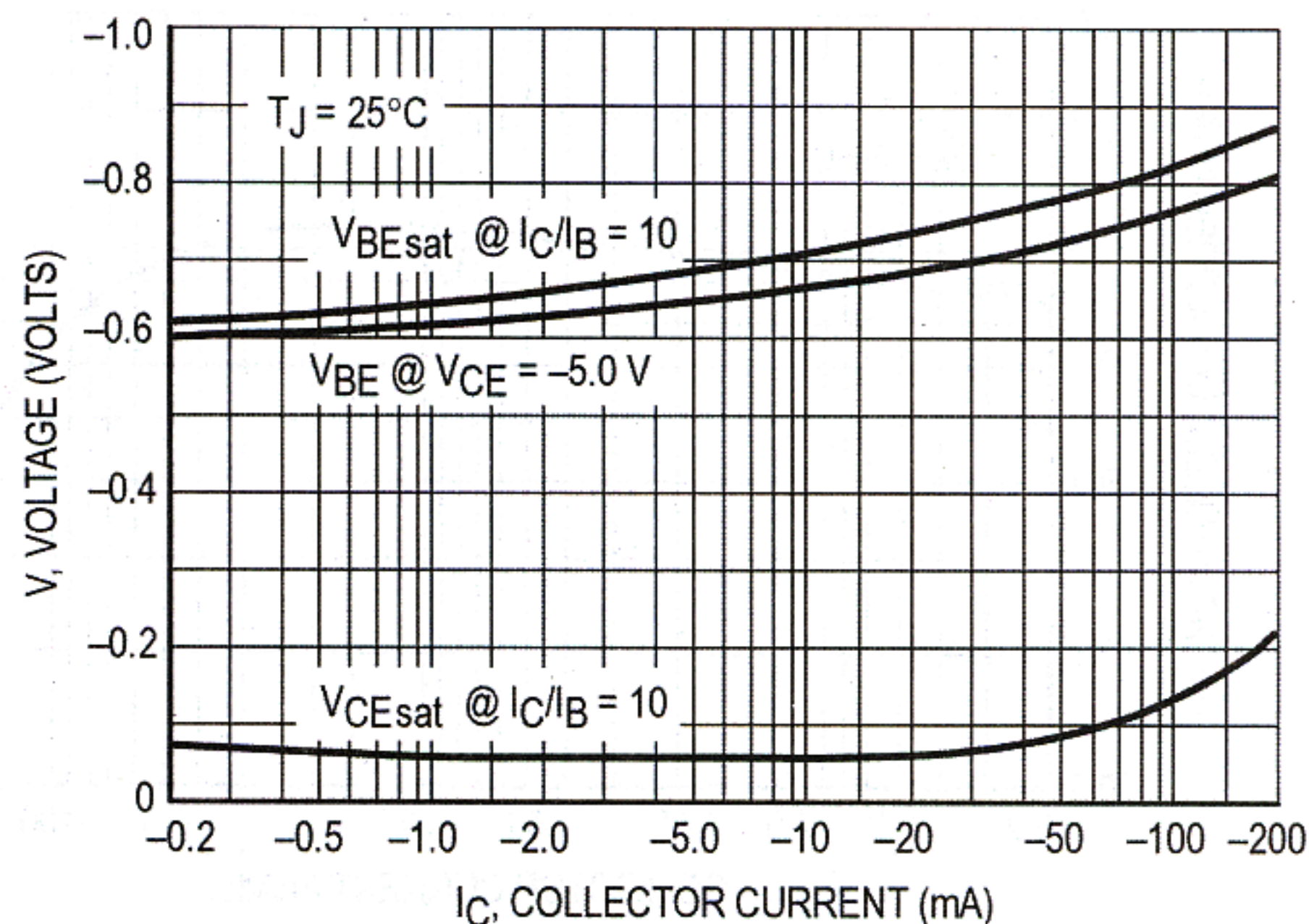
Typical Characteristics

BC556/557/558

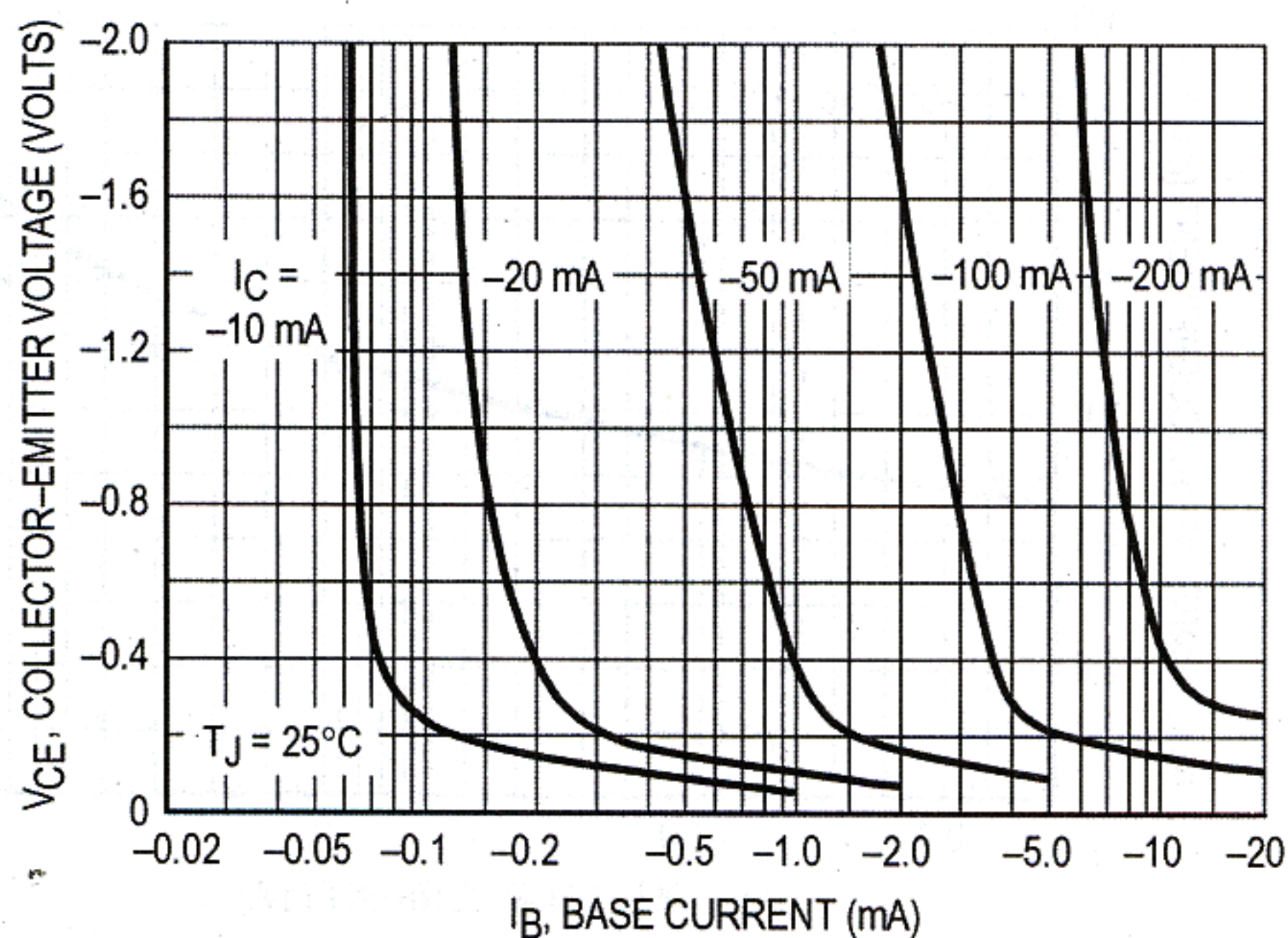
BC556



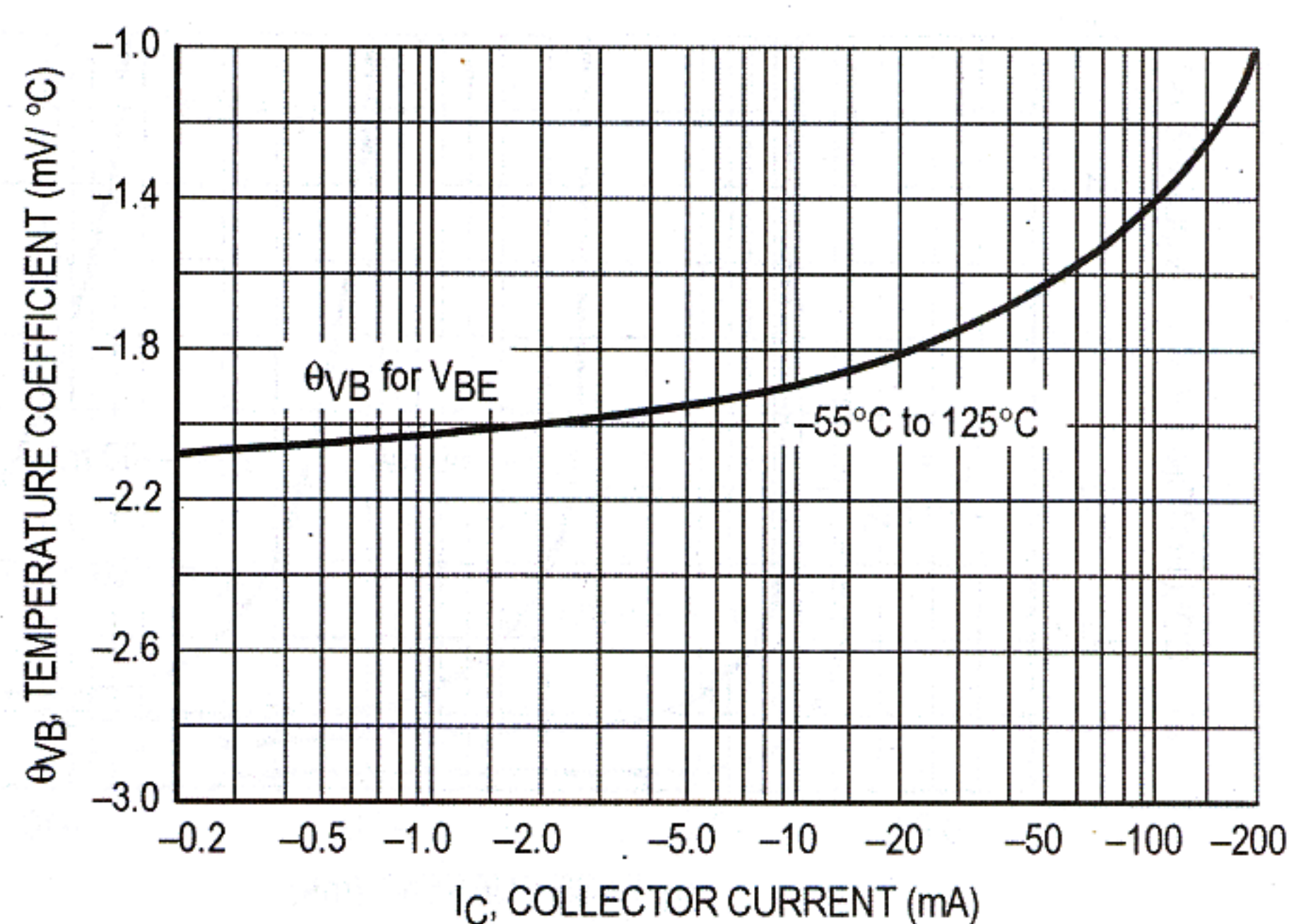
DC Current Gain



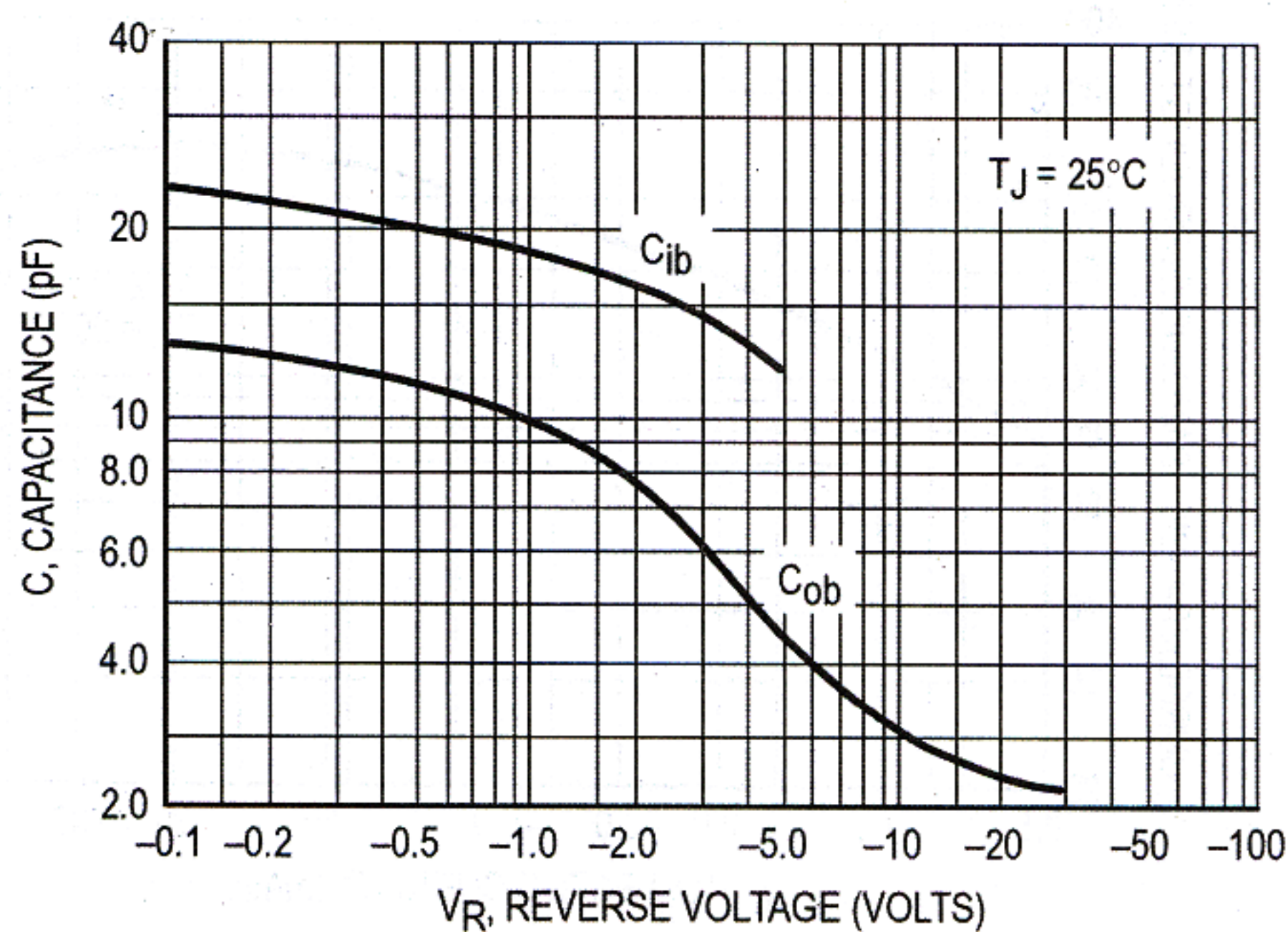
"On" Voltage



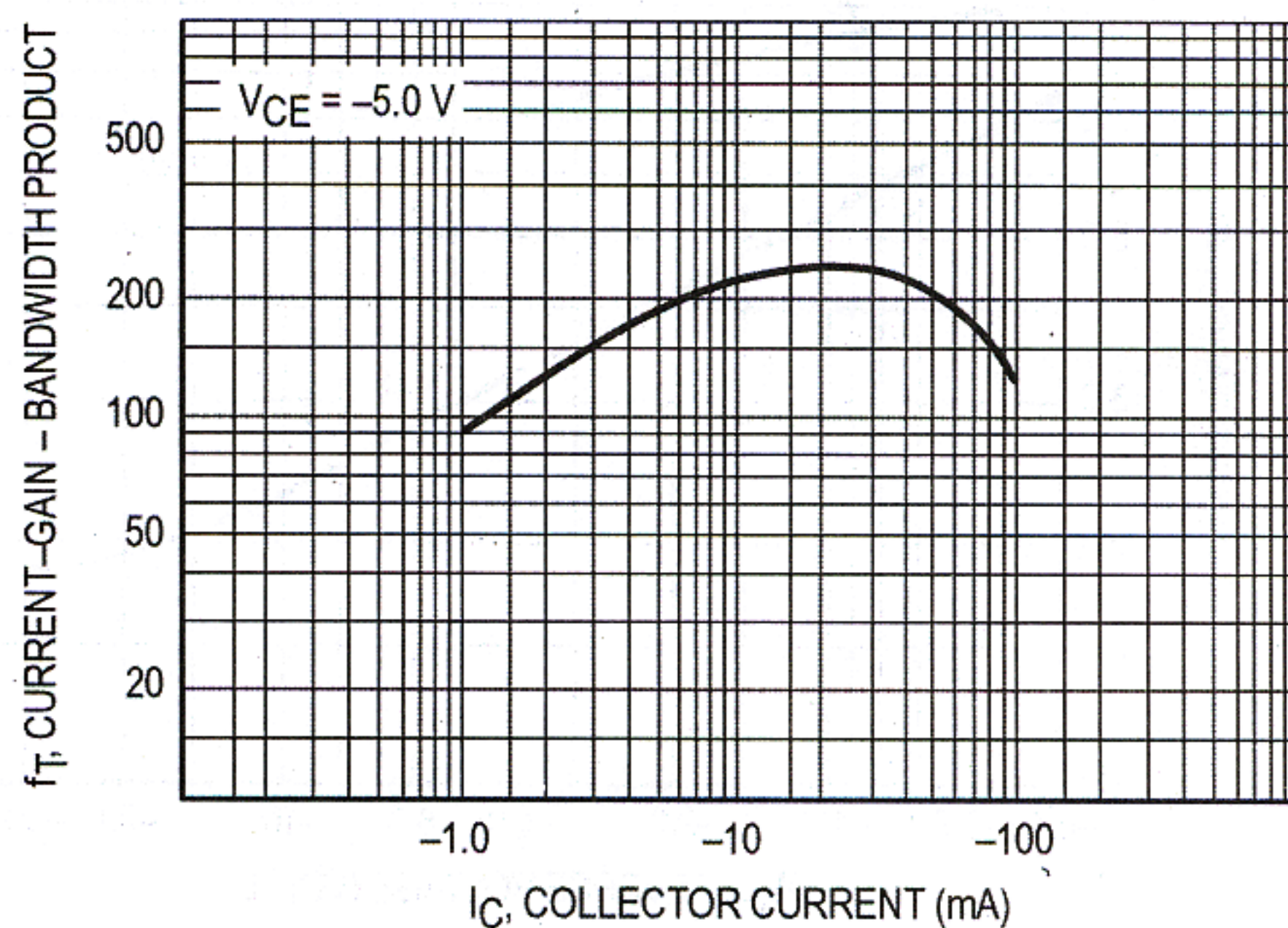
Collector Saturation Region



Base-Emitter Temperature Coefficient



Capacitance



Current-Gain - Bandwidth Product