TO-92 Plastic-Encapsulate Transistors

BC556 B
BC557, A, B, C   TRANSISTOR   PNP
BC558, B
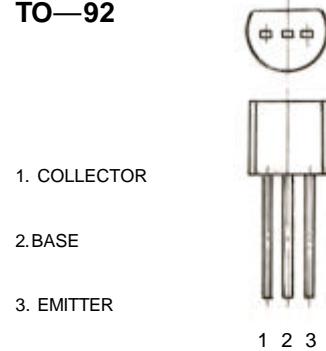
FEATURES

Power dissipation

P_{CM} : 0.625 W   Tamb=25

Collector current

I_{CM} : -0.1   A

Collector-base voltage

V_{CBO} :   BC556   -80   V

BC557   -50   V

BC558   -30   V

Operating and storage junction temperature range

T_J T_{stg}: -55   to +150

TO—92

1. COLLECTOR

2. BASE

3. EMITTER

1 2 3

ELECTRICAL   CHARACTERISTICS   Tamb=25   unless   otherwise   specified

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

BC557/BC558
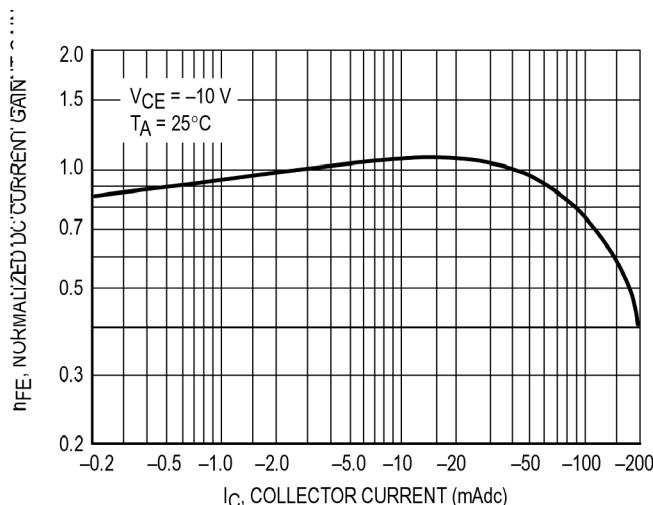
**Normalized DC Current Gain**
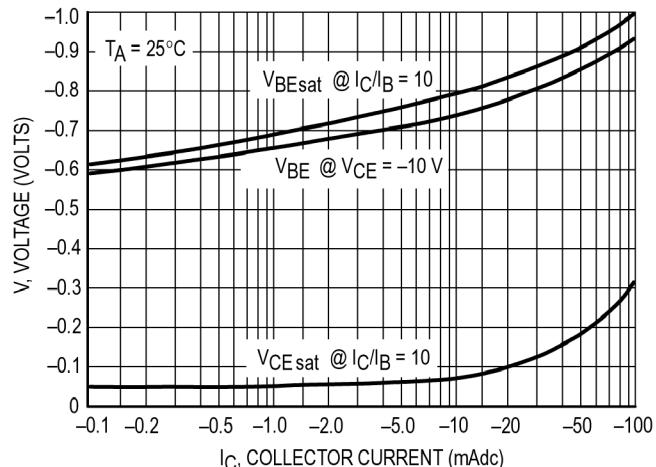

"Saturation" and "On" Voltages
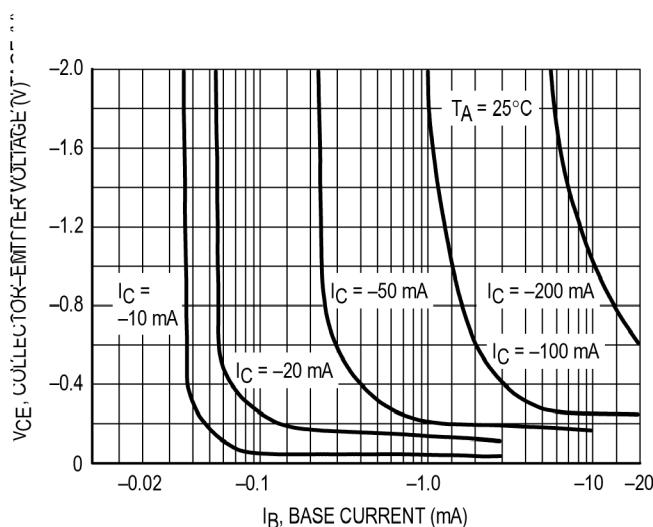
Collector Saturation Region
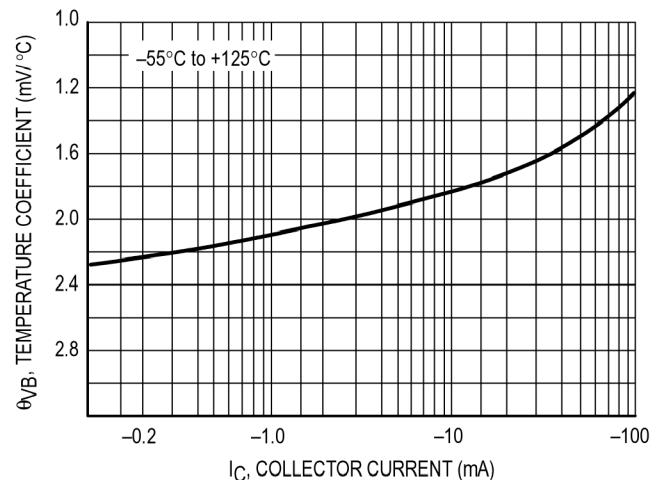
Base–Emitter Temperature Coefficient
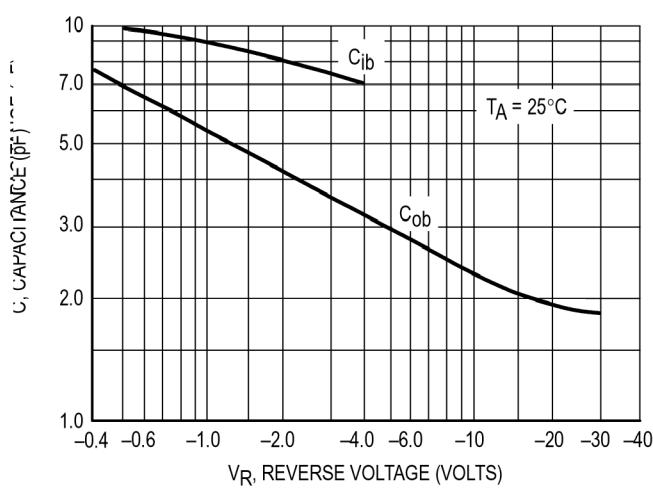
**Capacitances**

Current–Gain – Bandwidth Product

BC556

**DC Current Gain**


"On" Voltage

Collector Saturation Region

**Base–Emitter Temperature Coefficient**

Capacitance
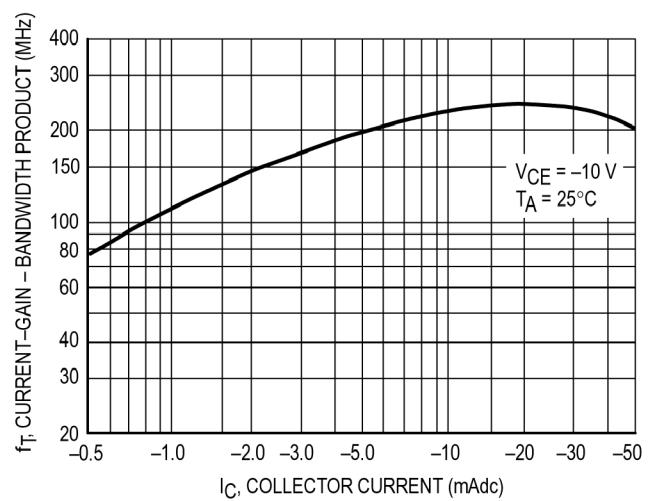
Current–Gain – Bandwidth Product
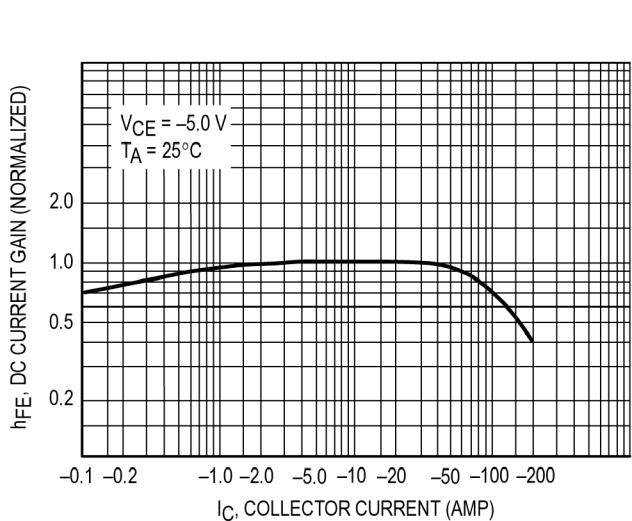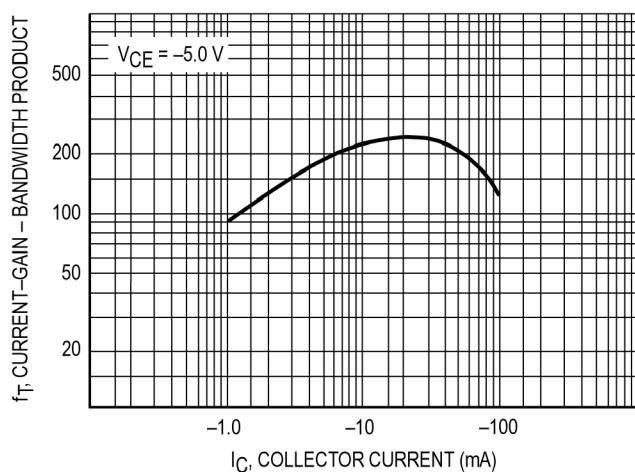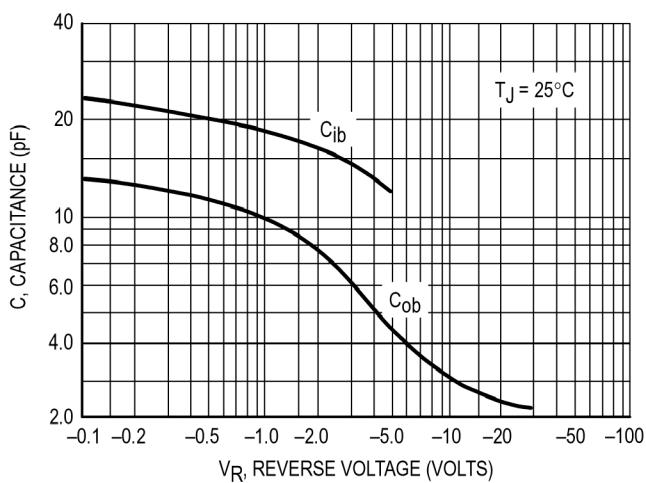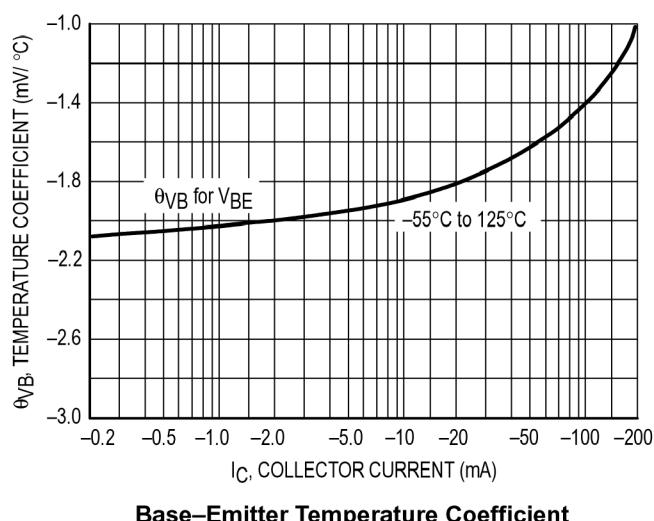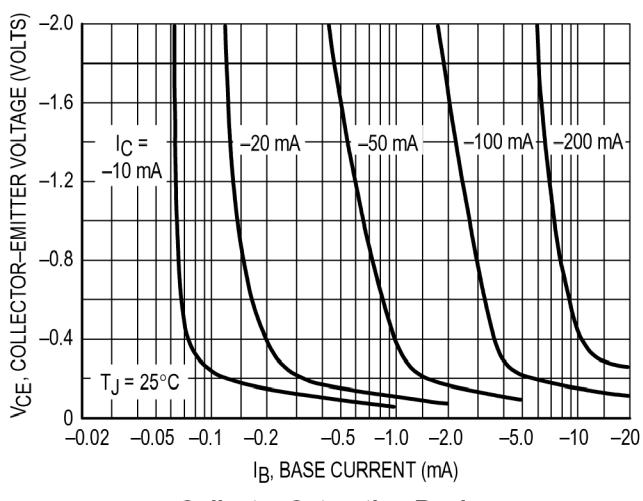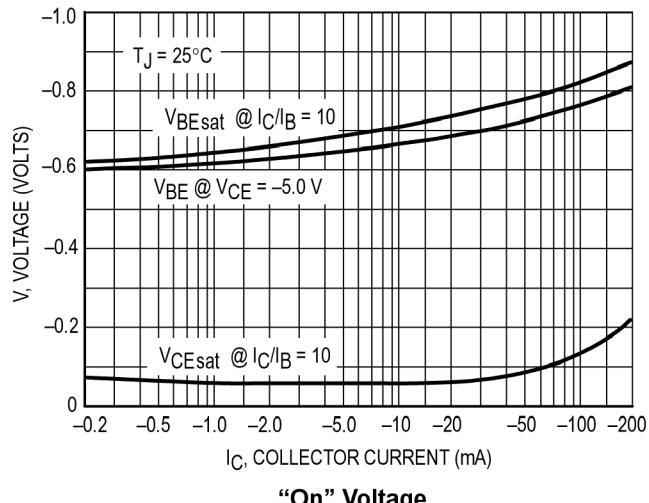
TO-92 PACKAGE OUTLINE DIMENSIONS
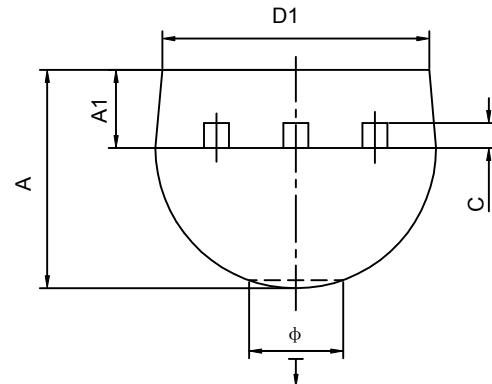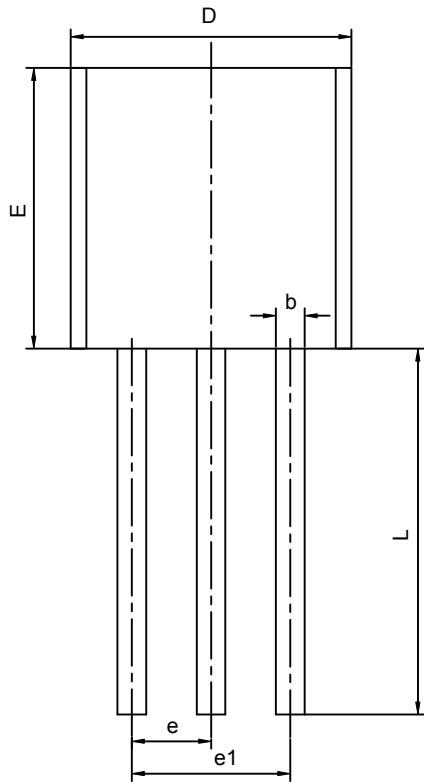
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	**Max**	**Min**	**Max**
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.400	4.700	0.173	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270TYP		0.050TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Ö		1.600		0.063
↧	0.000	0.380	0.000	0.015