

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES PNP Transistor

TO-92

Power dissipation

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

Collector current

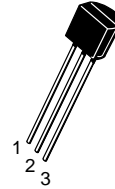
I_{CM} : -0.1 A

Collector-base voltage

V_{CBO} : BC556 -80 V
BC557 -50 V
BC558 -30 V

Operating and storage junction temperature range

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



- 1. COLLECTOR
- 2. BASE
- 3. EMITTER

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

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V_{CBO}	$I_C = -100\mu A, I_E = 0$	-80		V
	BC556		-80		
	BC557		-50		
	BC558		-30		
Collector-emitter breakdown voltage	V_{CEO}	$I_E = -2mA, I_B = 0$	-65		V
	BC556		-65		
	BC557		-45		
	BC558		-30		
Emitter-base breakdown voltage	V_{EBO}	$I_E = -100\mu A, I_C = 0$	-6		V
Collector cut-off current	I_{CBO}	$V_{CB} = -70V, I_E = 0$ $V_{CB} = -45V, I_E = 0$ $V_{CB} = -25V, I_E = 0$		-0.1	μA
	BC556			-0.1	
	BC557			-0.1	
	BC558			-0.1	
Collector cut-off current	I_{CEO}	$V_{CE} = -60V, I_B = 0$ $V_{CE} = -40V, I_B = 0$ $V_{CE} = -25V, I_B = 0$		-0.1	μA
	BC556			-0.1	
	BC557			-0.1	
	BC558			-0.1	
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$		-0.1	μA
	BC556			-0.1	
	BC557			-0.1	
	BC558			-0.1	
DC current gain	$h_{FE(1)}$	$V_{CE} = -5V, I_C = -2mA$	120	500	
	BC556		120	500	
	BC557		120	800	
	BC558		120	800	
	BC557A/558A		120	220	
	BC556B/BC557B/BC558B		180	460	
	BC556C/BC557C/BC558C		420	800	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -5mA$		-0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -100mA, I_B = -5mA$		-1	V
Transition frequency	f_T	$V_{CE} = -5V, I_C = -10mA$ $f = 100MHz$	150		MHz

Any changing of specification will not be informed individual

Typical Characteristics

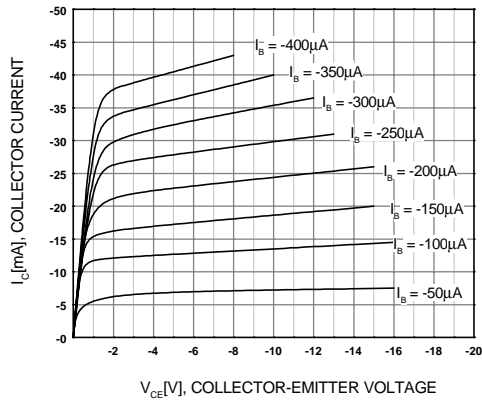


Figure 1. Static Characteristic

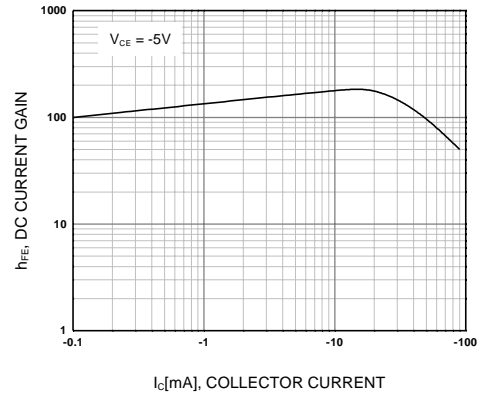
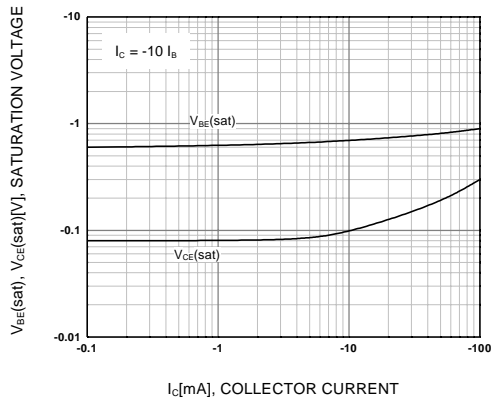


Figure 2. DC current Gain



**Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage**

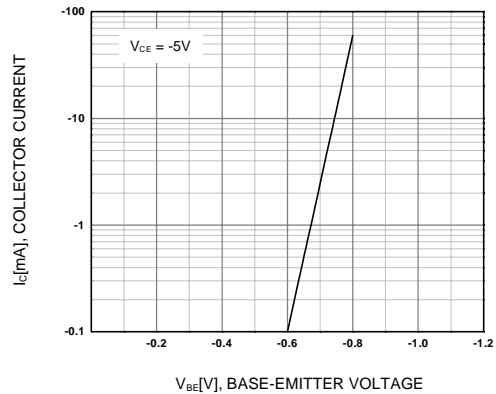


Figure 4. Base-Emitter On Voltage

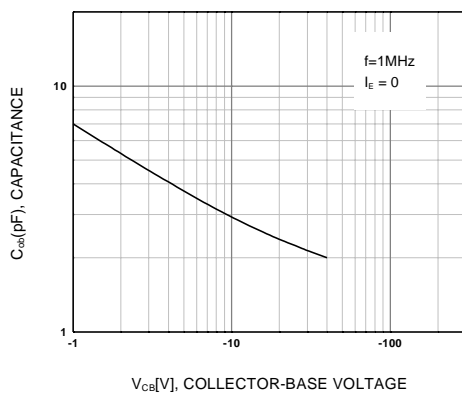


Figure 5. Collector Output Capacitance

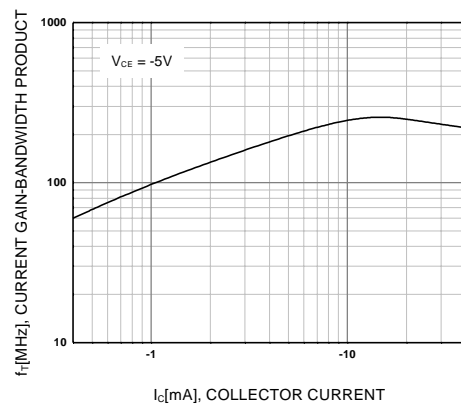
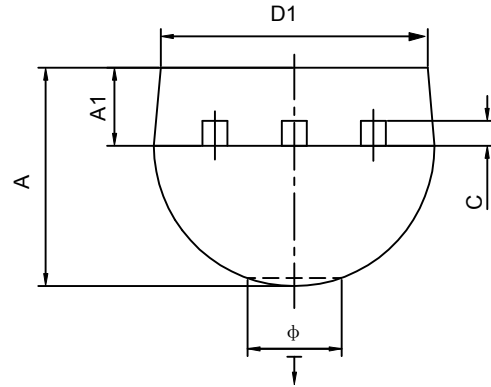
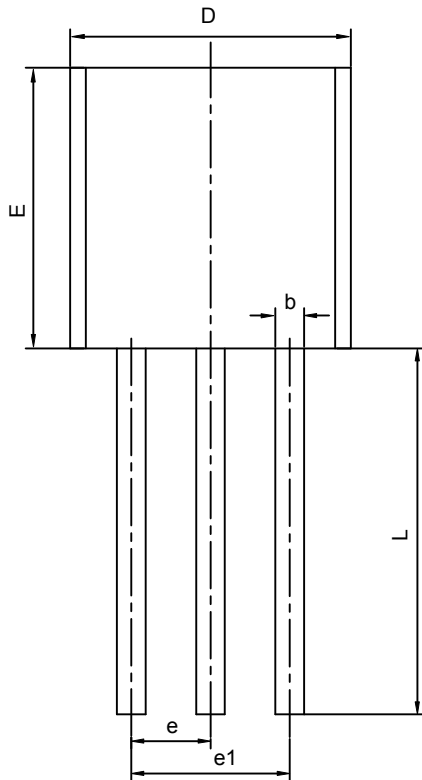


Figure 6. Current Gain Bandwidth Product

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