

PNP EPITAXIAL SILICON TRANSISTOR

BC556/557/558/559/560

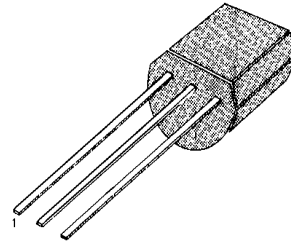
SWITCHING AND AMPLIFIER

- HIGH VOLTAGE: BC556, $V_{CE0} = -65V$
- LOW NOISE: BC559, BC560
- Complement to BC546 ... BC 550

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ C$)

Characteristic	Symbol	Rating	Unit
Collector-Base Capacitance : BC556 : BC557/560 : BC558/559	V_{CBO}	-80 -50 -30	V V V
Collector-Emitter Voltage : BC556 : BC557/560 : BC558/559	V_{CEO}	-65 -45 -30	V V V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current (DC)	I_C	-100	mA
Collector Dissipation	P_C	500	mW
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{STG}	-65 ~ 150	$^\circ C$

TO-92



1. Collector 2. Base 3. Emitter

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ C$)

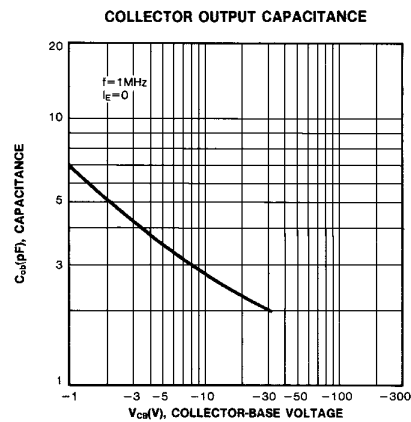
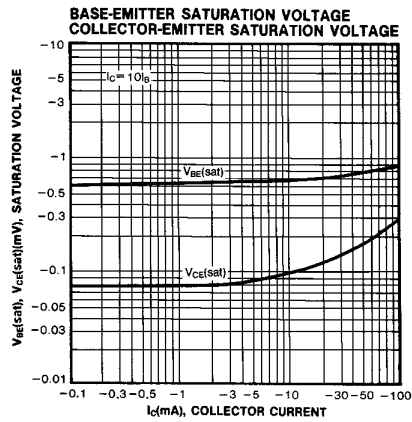
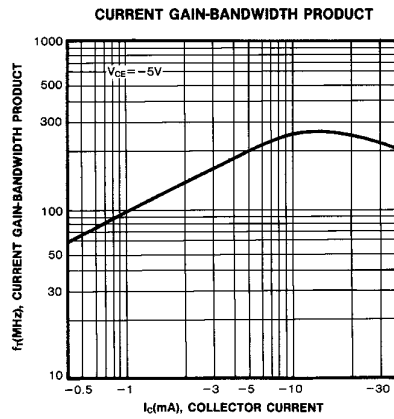
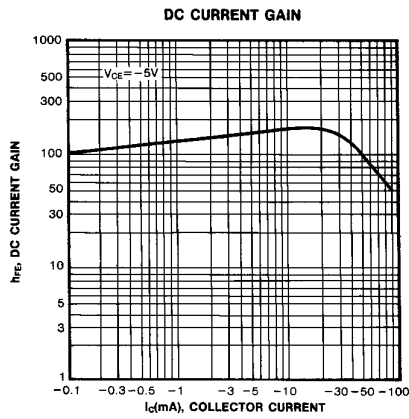
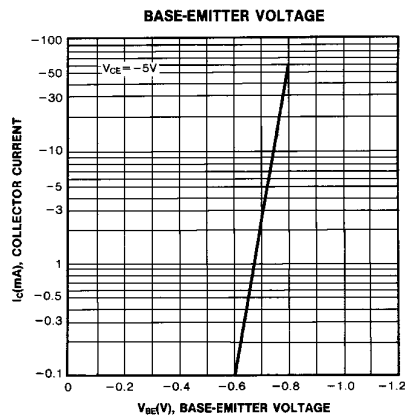
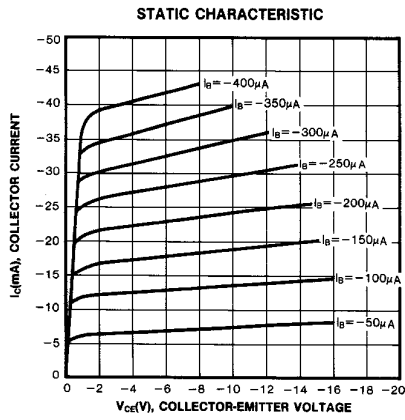
Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-off Current	I_{CBO}	$V_{CB} = -30V, I_E = 0$			-15	nA
DC Current Gain	h_{FE}	$V_{CE} = -5V, I_C = 2mA$	110		800	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -10mA, I_B = -0.5mA$ $I_C = -100mA, I_B = -5mA$		-90 -250	-300 -650	mV mV
Collector Base Saturation Voltage	$V_{BE(on)}$	$I_C = -10mA, I_B = -0.5mA$ $I_C = -100mA, I_B = -5mA$		-700 -900		mV mV
Base Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = -5V, I_C = -2mA$ $V_{CE} = -5V, I_C = -10mA$	-600	-660	-750 -800	mV mV
Current Gain Bandwidth Product	f_T	$V_{CE} = -5V, I_C = -10mA$		150		MHz
Collector Base Capacitance	C_{CBO}	$V_{CB} = -10V, f = 1MHz$			6	pF
Noise Figure	NF	$V_{CE} = -5V, I_C = -200\mu A$ $f = 1KHz, R_G = 2K\Omega$		2 1	10 4	dB dB
	NF	$V_{CE} = -5V, I_C = -200\mu A$ $R_G = 2K\Omega$ $f = 30 \sim 15000MHz$		1.2 1.2	4 2	dB dB

h_{FE} CLASSIFICATION

Classification	A	B	C
h_{FE}	110-220	200-450	420-800

BC556/557/558/559/560

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