

BC556/557/558/559/560 **PNP Epitaxial Silicon Transistor**

Features

- Switching and Amplifier
- High Voltage: BC556, V_{CEO} = -65V
- Low Noise: BC559, BC560
- Complement to BC546 ... BC 550

TO-92



1. Collector 2. Base 3. Emitter

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	: BC556	-80	V
	: BC557/560	-50	V
	: BC558/559	-30	V
V _{CEO}	Collector-Emitter Voltage		
	: BC556	-65	V
	: BC557/560	-45	V
	: BC558/559	-30	V
V _{EBO}	Emitter-Base Voltage	-5	V
۱ _C	Collector Current (DC)	-100	mA
P _C	Collector Power Dissipation	500	mW
ТJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65 ~ 150	°C

Absolute Maximum Ratings $T_a = 25^{\circ}C$ unless otherwise noted

Electrical Characteristics $T_a = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} = -30V, I _E =0	7		-15	nA
h _{FE}	DC Current Gain	V _{CE} = -5V, I _C =2mA	110		800	1
V _{CE} (sat)	Collector-Emitter Saturation Volt- age	I _C = -10mA, I _B = -0.5mA I _C = -100mA, I _B = -5mA		-90 -250	-300 -650	mV mV
V _{BE} (sat)	Collector-Base Saturation Voltage	I _C = -10mA, I _B = -0.5mA I _C = -100mA, I _B = -5mA		-700 -900		mV mV
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -5V, I _C = -2mA V _{CE} = -5V, I _C = -10mA	-600	-660	-750 -800	mV mV
f _T	Current Gain Bandwidth Product	V _{CE} = -5V, I _C = -10mA, f=10MHz		150	- (MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz			6	pF
NF	Noise Figure : BC556/557/558 : BC559/560	V _{CE} = -5V, I _C = -200μA f=1KHz, R _G =2KΩ		2 1	10 4	dB dB
	: BC559 : BC560	V _{CE} = -5V, I _C = -200μA R _G =2KΩ, f=30~15000MHz		1.2 1.2	4 2	dB dB

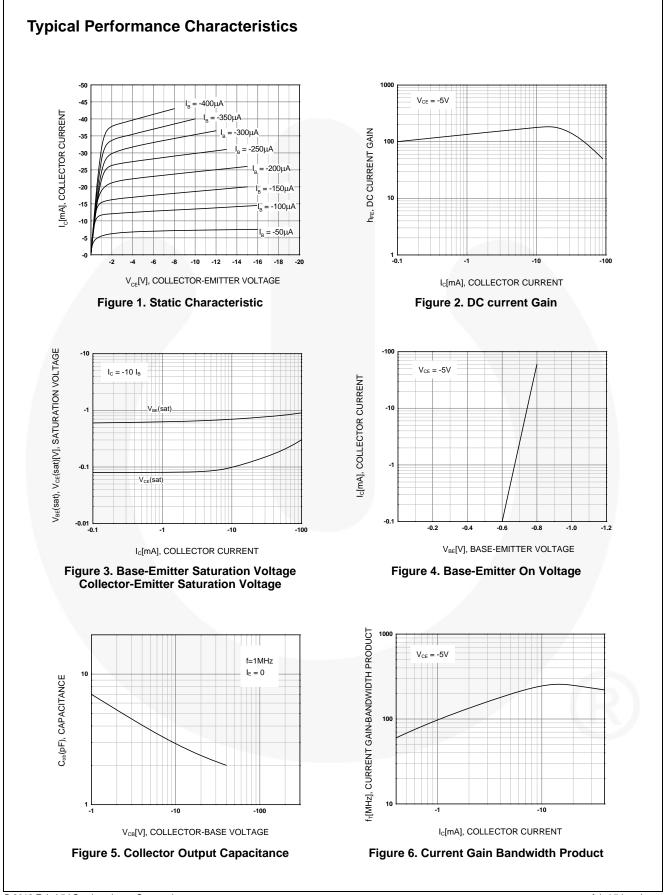
h_{FE} Classification

Classification	А	В	С
h _{FE}	110 ~ 220	200 ~ 450	420 ~ 800

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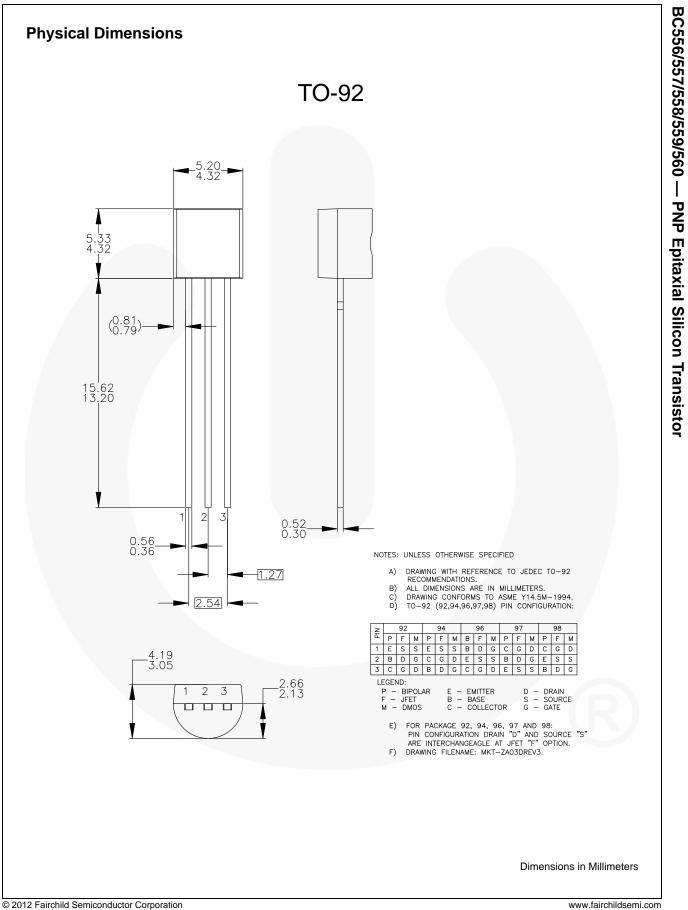
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