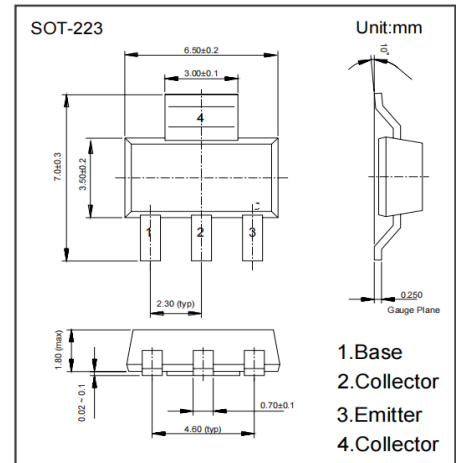


# PNP Transistors

## BCP51/ BCP52/ BCP53

### FEATURES

- For AF driver and output stages
- High collector current
- Low collector-emitter saturation voltage
- Complementary types: BCP54...BCP56 (NPN)



### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	BCP51	BCP52	BCP53	Unit
V <sub>CBO</sub>	Collector-Base Voltage	-45	-60	-100	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-45	-60	-80	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5			V
I <sub>C</sub>	Collector Current -Continuous	-1			A
P <sub>C</sub>	Collector Power Dissipation	1.5			W
T <sub>J</sub> , T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55~+150			°C
R <sub>JA</sub>	Thermal Resistance Junction to Ambient	94			°C/W

### ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	BCP51	I <sub>C</sub> =-0.1mA, I <sub>E</sub> =0	-45		V
	BCP52		-60		
	BCP53		-100		
Collector-emitter breakdown voltage	BCP51	I <sub>C</sub> =-10mA, I <sub>B</sub> =0	-45		V
	BCP52		-60		
	BCP53		-80		
Base-emitter breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-10μA, I <sub>C</sub> =0	-5		V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =-30V, I <sub>E</sub> =0		-100	nA
DC current gain	h <sub>FE(1)</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> =-5mA	25		
	h <sub>FE(2)</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> =-150mA	63	250	
	h <sub>FE(3)</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> =-500mA	25		
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA		-0.5	V
Base-emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> =-2V, I <sub>C</sub> =-500mA		-1	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> =-10V, I <sub>C</sub> =-50mA, f=100MHz	100		MHz

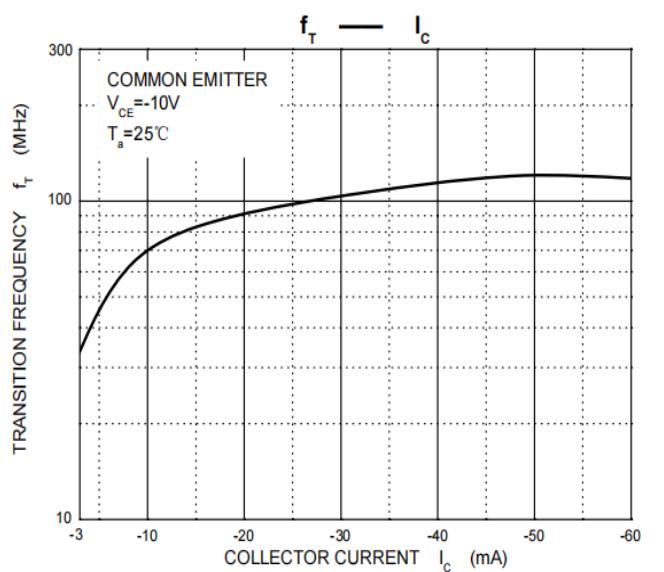
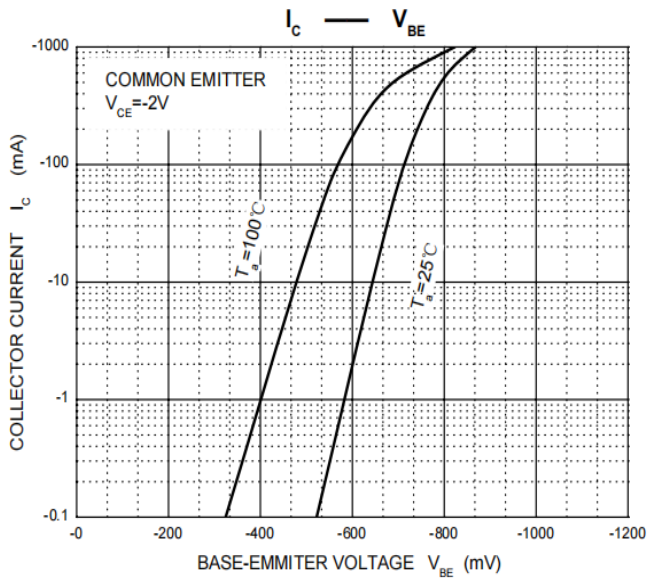
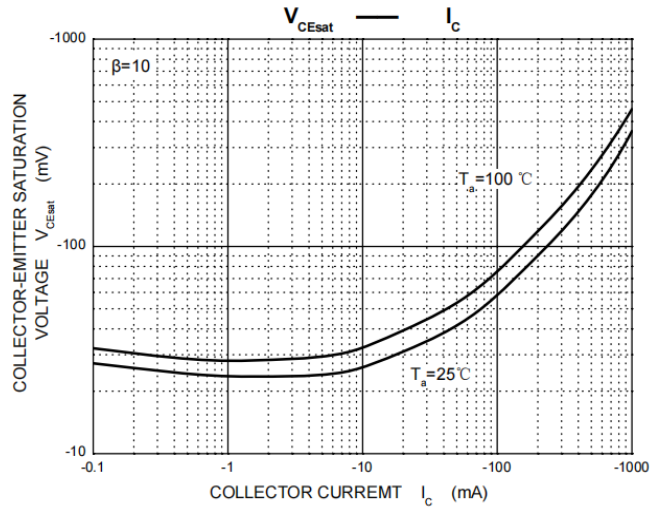
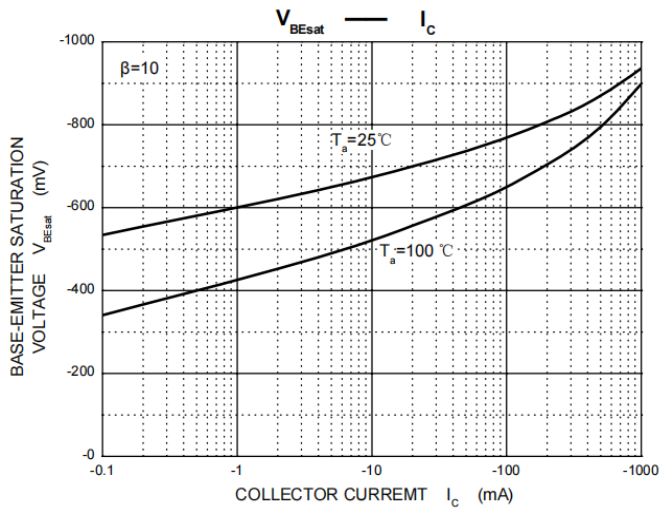
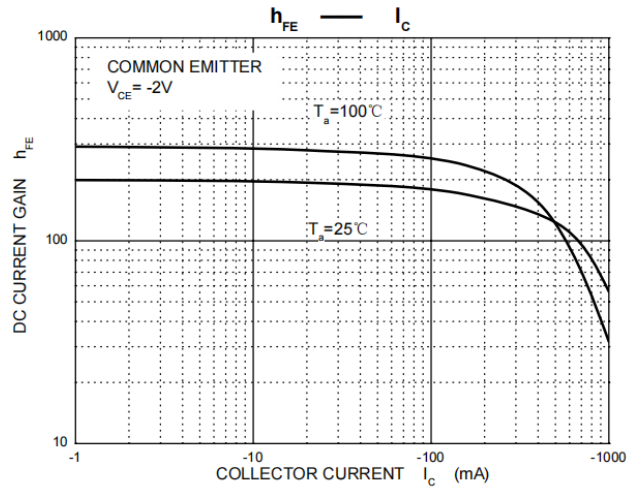
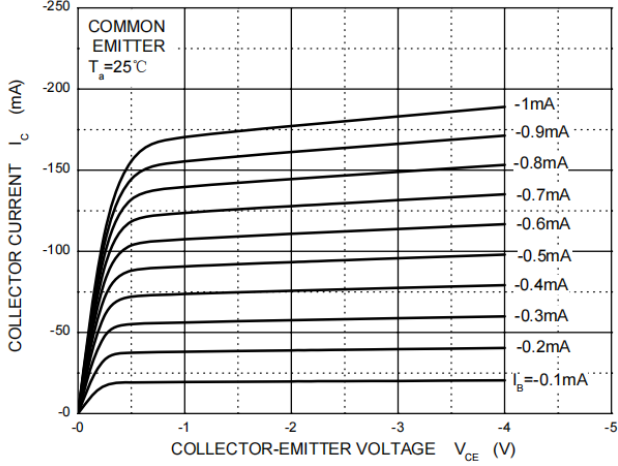
### CLASSIFICATION OF h<sub>FE(2)</sub>

Rank	BCP51-10, BCP52-10, BCP53-10	BCP51-16, BCP52-16, BCP53-16
Range	63-160	100-250

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## Typical Characteristics

Static Characteristic



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