

## SOT-89 Plastic-Encapsulate Transistors

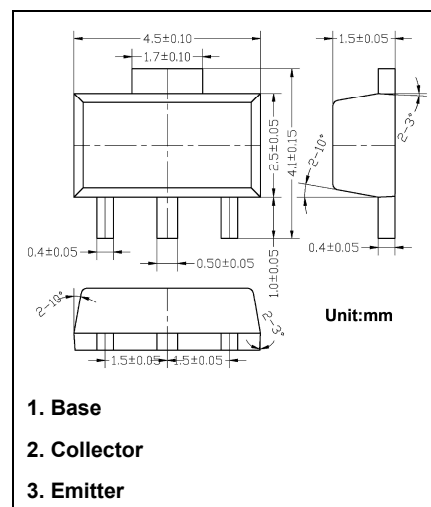
### BCX56-16 NPN Transistors

#### Features

- NPN Complements to BCX51, BCX52, BCX53
- Low Voltage
- High Current

#### Applications

- Driver Stages of Audio Amplifiers



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

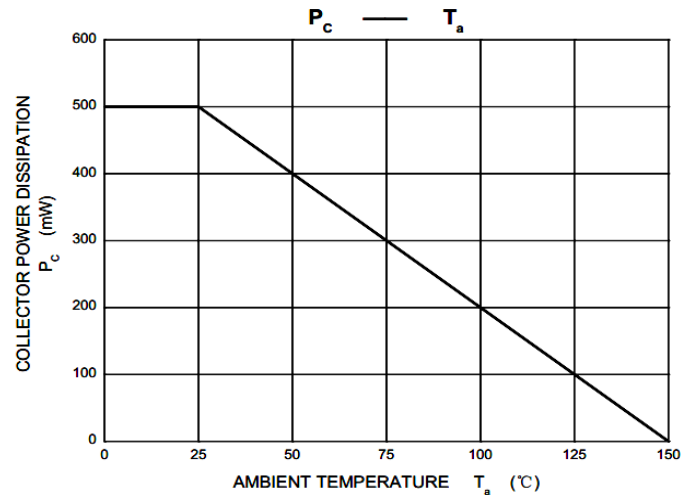
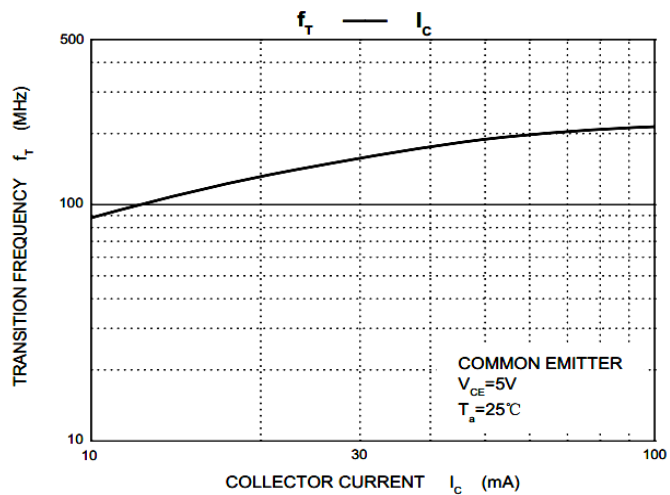
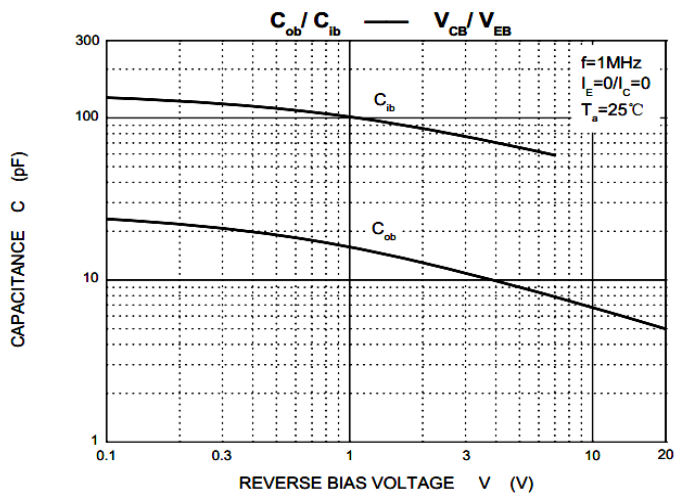
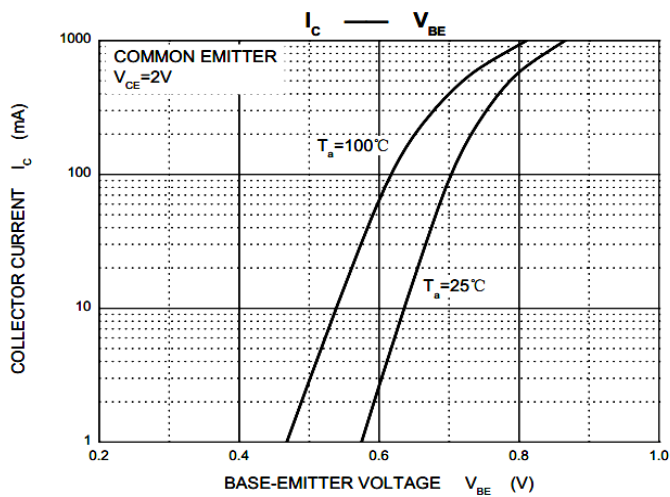
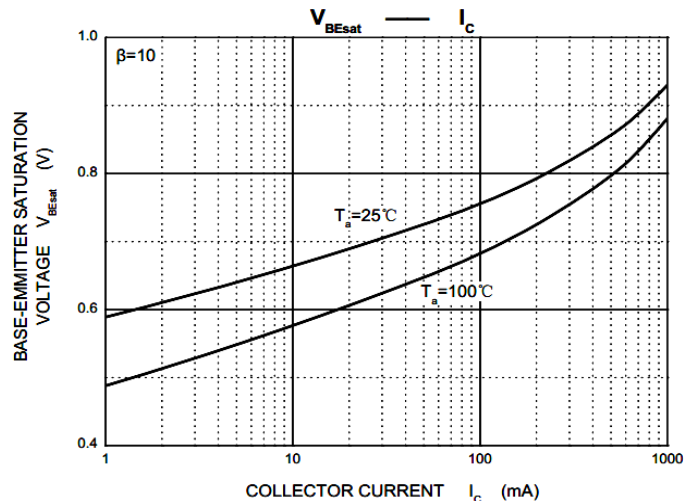
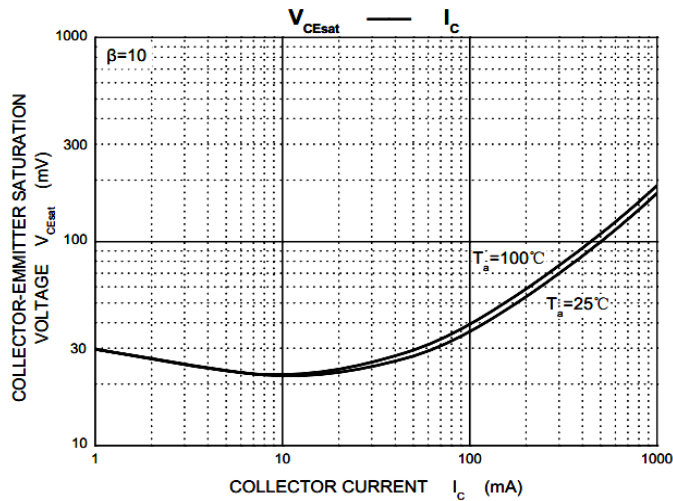
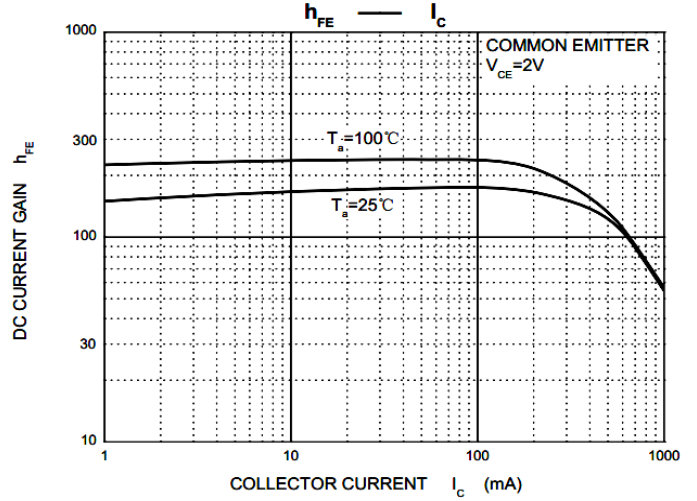
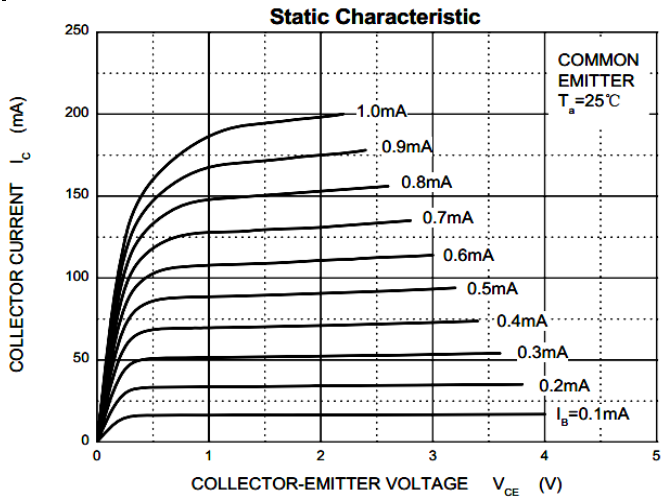
Symbol	Parameter	Value	Unit
V <sub>CB0</sub>	Collector Base Voltage	100	V
V <sub>CEO</sub>	Collector Emitter Voltage	80	V
V <sub>EBO</sub>	Emitter Base Voltage	5	V
I <sub>c</sub>	Collector Current	1	A
P <sub>c</sub>	Collector Power Dissipation	500	mW
T <sub>j</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55 ~ +155	°C
R <sub>θJA</sub>	Thermal Resistance from Junction to Ambient	250	°C/W

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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>c</sub> = 100μA, I <sub>E</sub> = 0	100			V
V <sub>(BR)CEO</sub> *	Collector-emitter breakdown voltage	I <sub>c</sub> = 10mA, I <sub>B</sub> = 0	80			V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> = 100μA, I <sub>c</sub> = 0	5			V
I <sub>cBO</sub>	Collector cut-off current	V <sub>CB</sub> = 30V, I <sub>E</sub> = 0			100	nA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> = 5V, I <sub>c</sub> = 0			100	nA
h <sub>FE(1)</sub>	DC current gain*	V <sub>CE</sub> = 2V, I <sub>c</sub> = 5mA	40			
h <sub>FE(2)</sub>		V <sub>CE</sub> = 2V, I <sub>c</sub> = 150mA	100		250	
h <sub>FE(3)</sub>		V <sub>CE</sub> = 2V, I <sub>c</sub> = 500mA	25			
V <sub>CE(sat)</sub>	Collector-emitter saturation voltage*	I <sub>c</sub> = 0.5A, I <sub>B</sub> = 50mA			0.5	V
V <sub>BE</sub> *	Base -emitter voltage	V <sub>CE</sub> = 2V, I <sub>c</sub> = 0.5A			1	V
f <sub>T</sub>	Transition frequency	V <sub>CE</sub> =5V, I <sub>c</sub> =10mA, f=100MHz		130		MHz

\* Pulse Test

# Typical Characteristics



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