

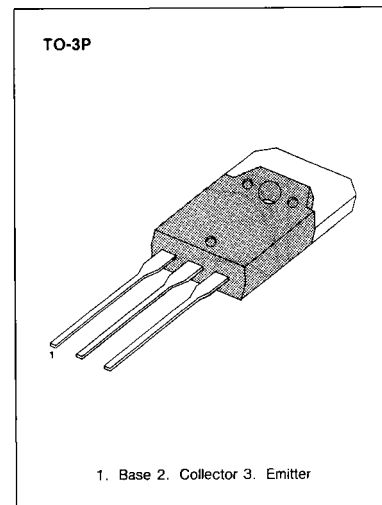
## PNP Transistor KSB817 datasheet

### AUDIO POWER AMPLIFIER DC TO DC CONVERTER

- High Current Capability
- High Power Dissipation
- Complementary to KSD1047

#### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub> = 25°C)

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V <sub>CBO</sub>	- 160	V
Collector Emitter Voltage	V <sub>CEO</sub>	- 140	V
Emitter Base Voltage	V <sub>EBO</sub>	- 6	V
Collector Current (DC)	I <sub>C</sub>	- 12	A
Collector Current (Pulse)	I <sub>C</sub>	- 15	A
Collector Dissipation	P <sub>C</sub>	100	W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>STG</sub>	- 40 ~ 150	°C



#### ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C)

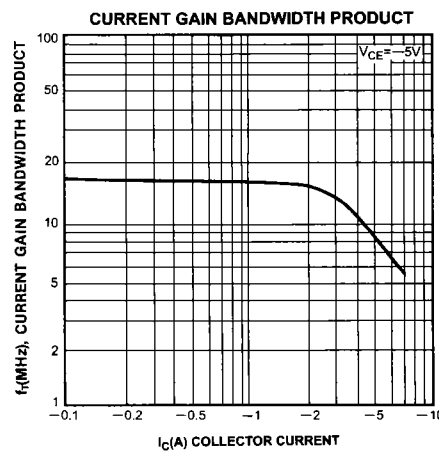
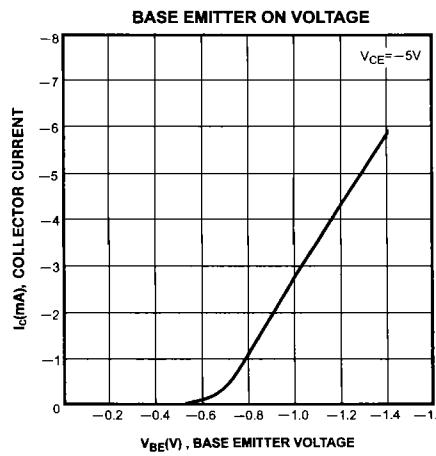
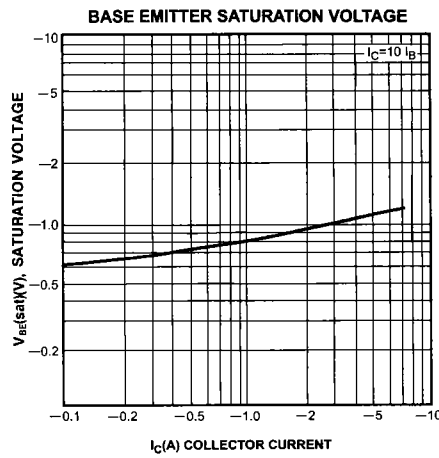
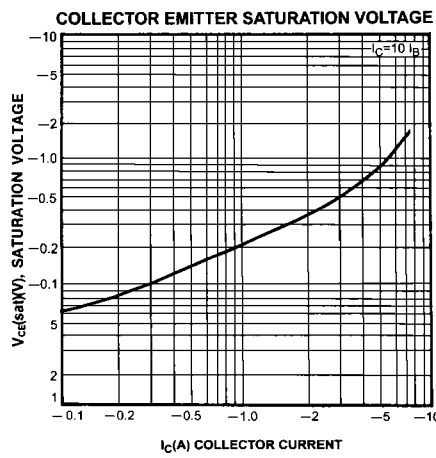
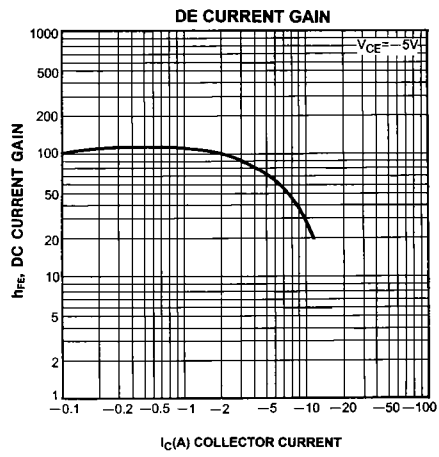
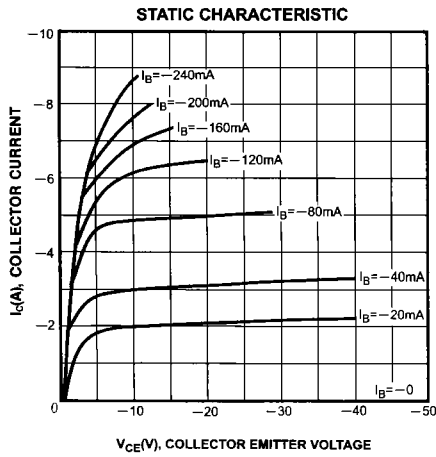
Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> = - 5mA, I <sub>E</sub> = 0	- 160			V
Collector Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> = - 10mA, R <sub>BE</sub> = ∞	- 140			V
Emitter Base Breakdown Voltage	BV <sub>EBO</sub>	I <sub>E</sub> = - 5mA, I <sub>C</sub> = 0	- 6			V
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> = - 80V, I <sub>E</sub> = 0			- 0.1	mA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>BE</sub> = - 4V, I <sub>C</sub> = 0			- 0.1	mA
*DC Current Gain	h <sub>FE1</sub>	V <sub>CE</sub> = - 5V, I <sub>C</sub> = - 1A	60		200	
	h <sub>FE2</sub>	V <sub>CE</sub> = - 5V, I <sub>C</sub> = - 6A	20			
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = - 5A, I <sub>B</sub> = - 0.5A			- 2.5	V
Base Emitter On Voltage	V <sub>BE(On)</sub>	I <sub>CE</sub> = - 5V, I <sub>C</sub> = - 1A			- 1.5	V
Current Gain Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> = - 5V, I <sub>C</sub> = - 1A		15		MHZ
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = - 10V, f = 1MHZ		300		pF
Turn On Time	t <sub>on</sub>	V <sub>CC</sub> = 20V		0.25		us
Fall Time	t <sub>f</sub>	I <sub>C</sub> = 1A = 10 · I <sub>B1</sub> = - 10 · I <sub>B2</sub>		0.53		us
Storage Time	t <sub>stg</sub>	R <sub>L</sub> = 20Ω		1.61		us

\* Plus test: PW = 20μs

#### \* h<sub>FE</sub>(1) CLASSIFICATION

Classification	O	Y
h <sub>FE</sub> (1)	60~120	100~200

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