

■ Product characteristics

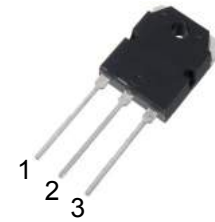
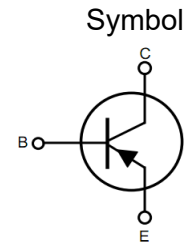
V_{CBO}	-100V
V_{CEO}	-100V
I_C	-25A

■ Applications

- High-Fidelity Audio Output Amplifier
- General Purpose Power Amplifier

■ Features

- High Voltage : $V_{CEO}=-100V$
- Complement to TIP35C



1:B 2:C 3:E

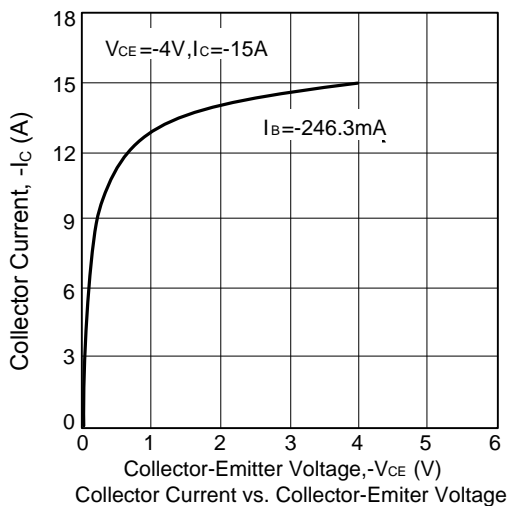
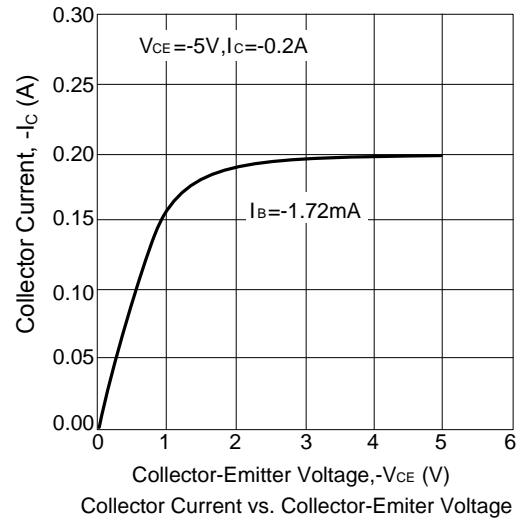
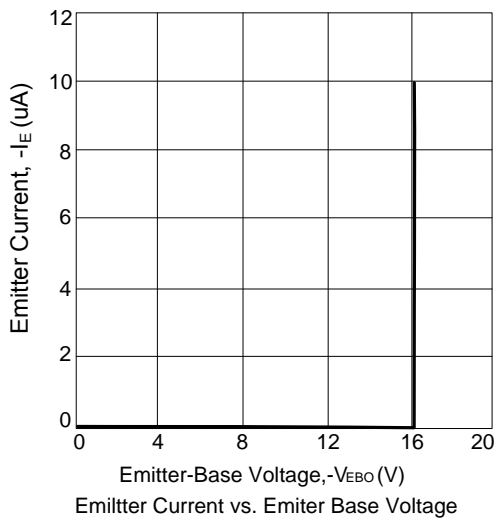
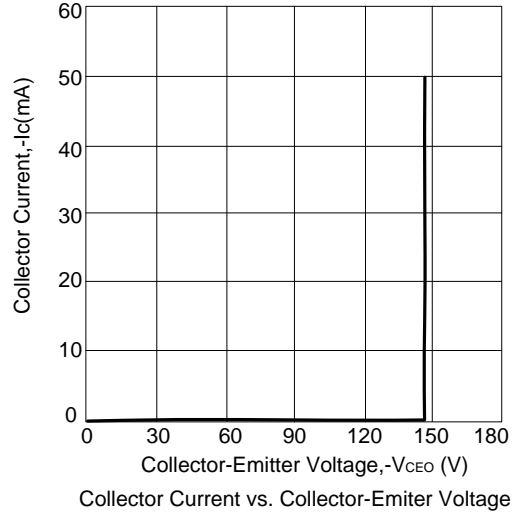
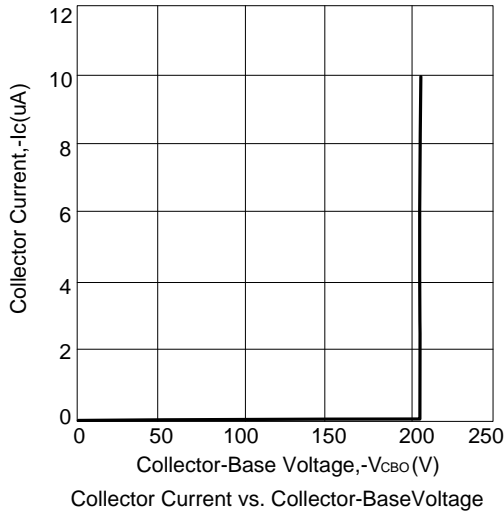
■ Absolute Maximum Ratings ($T_C=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	BV_{CBO}	-100	V
Collector-Emitter Voltage	BV_{CEO}	-100	V
Emitter-Base Voltage	BV_{EBO}	-5	V
Collector Current(DC)	I_C	-25	A
Total Device Dissipation($T_C=25^\circ C$)	P_D	120	W
Junction and Storage Temperature	T_J, T_{STG}	- 55 ~ +150	$^\circ C$

■ Electrical Characteristics ($T_C=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=-5mA, I_E=0$	-100	-	-	V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=-50mA, R_{BE}=\infty$	-100	-	-	V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=-5mA, I_C=0$	-5	-	-	V
Collector Cut-off Current	I_{CBO}	$V_{CB}=-100V, I_E=0$	-	-	-10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-10	μA
DC Current Gain	h_{FE1}	$V_{CE}=-5V, I_C=-1.5A$	55	-	200	-
DC Current Gain	h_{FE2}	$V_{CE}=-4.5V, I_C=-15A$	15	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-15A, I_B=-1.5A$	-	-	-1.8	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-25A, I_B=-5A$	-	-	-4.0	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE}=-5V, I_C=-5A$	-	-	-1.5	V
Transition Frequency	f_T	$V_{CE}=-5V, I_C=-1A$	3	-	-	MHz

■ Typical Performance Characteristics



■ TO-3PN Package mechanical data

