

### Product characteristics

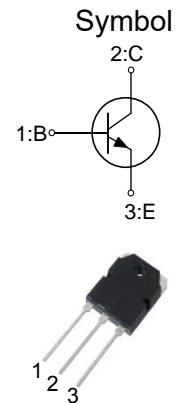
$V_{CBO}$	100V
$V_{CEO}$	100V
$I_C$	25A

### Applications

High-Fidelity Audio Output Amplifier  
General Purpose Power Amplifier

### Features

High Voltage :  $V_{CEO}=100V$   
Complement to TIP36C



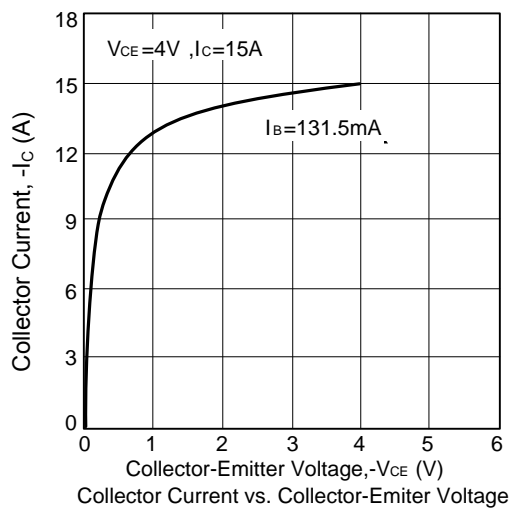
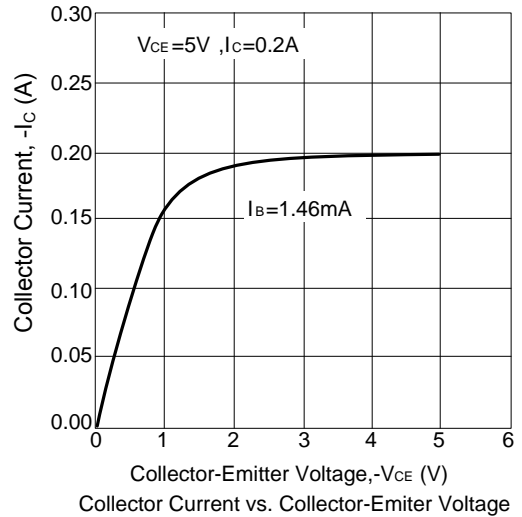
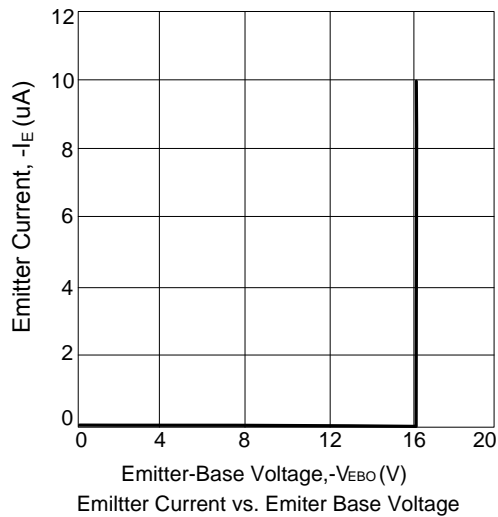
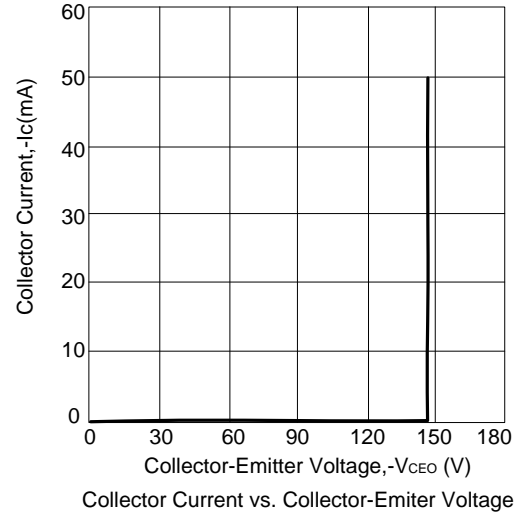
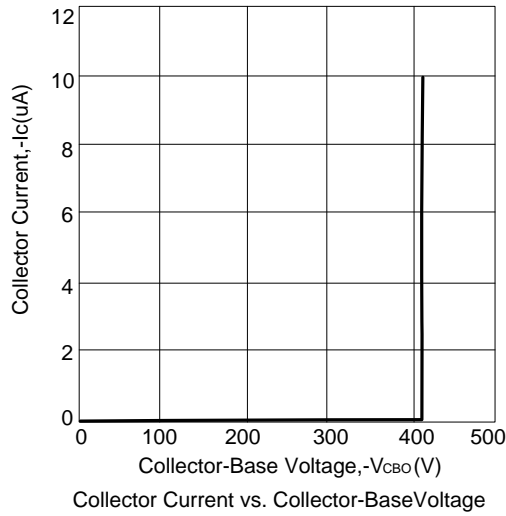
### Absolute Maximum Ratings ( $T_C=25^\circ C$ unless otherwise specified)

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	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	10	$\mu A$
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

