

■ Product characteristics

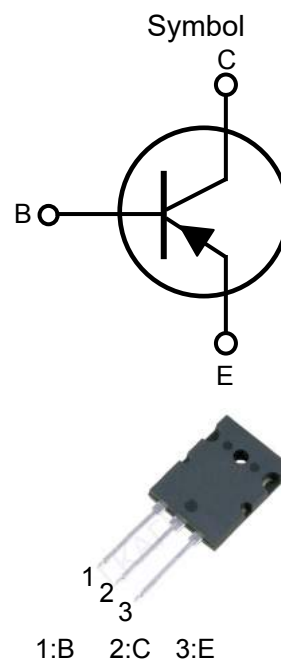
V_{CBO}	-230V
V_{CEO}	-230V
I_C	-15A

■ Applications

High-Fidelity Audio Output Amplifier
General Purpose Power Amplifier

■ Features

High Voltage : $V_{CEO}=-230V$
Complement to TTC5200



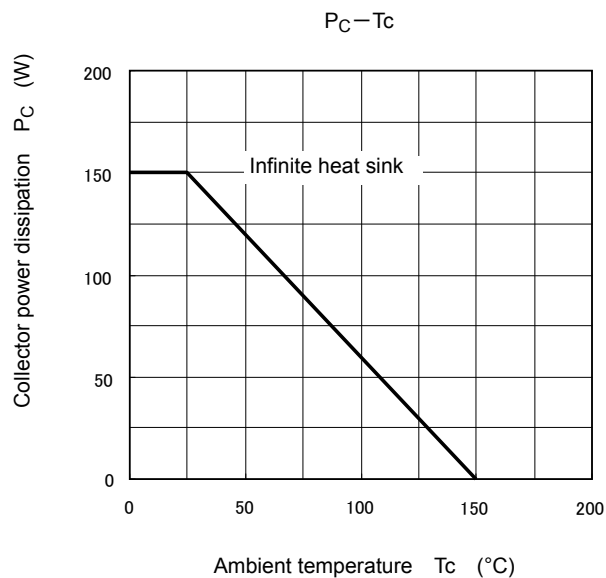
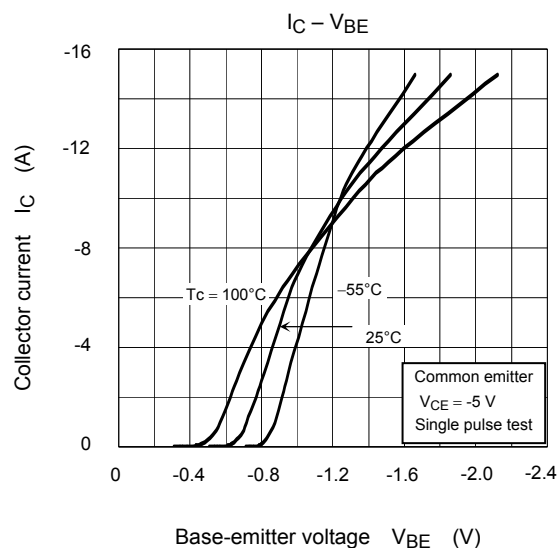
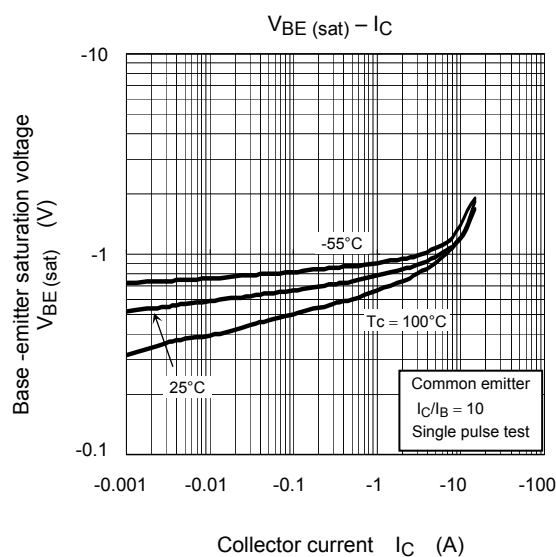
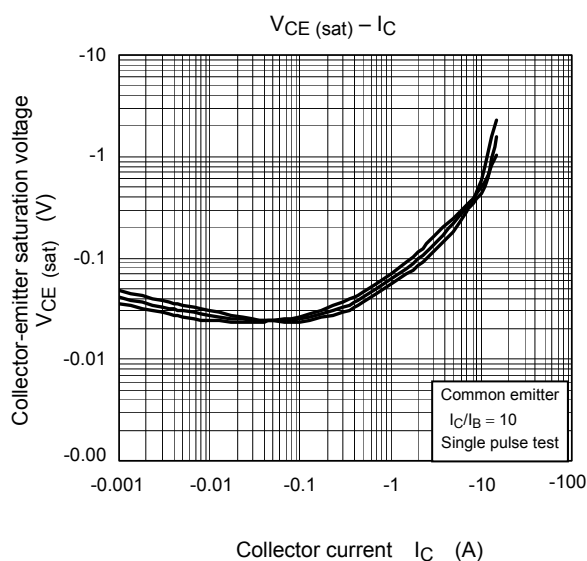
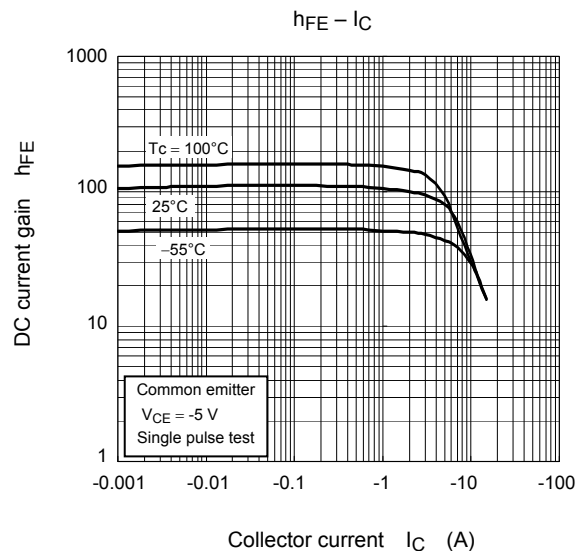
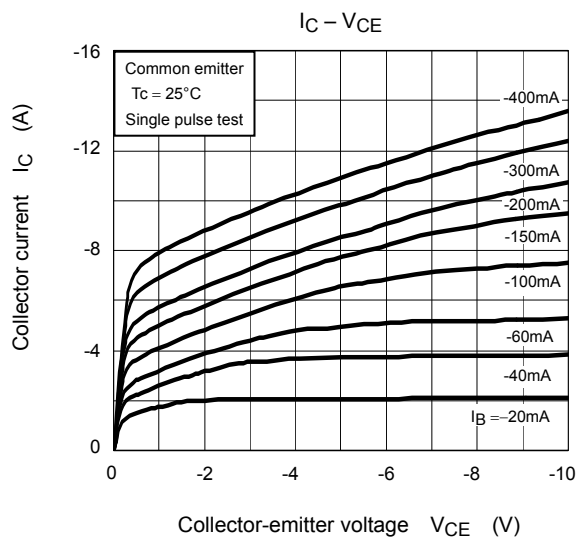
■ Absolute Maximum Ratings ($T_C=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	BV_{CBO}	-230	V
Collector-Emitter Voltage	BV_{CEO}	-230	V
Emitter-Base Voltage	BV_{EBO}	-5	V
Collector Current(DC)	I_C	-15	A
Base Current	I_B	-1.5	A
Total Device Dissipation($T_C=25^\circ C$)	P_D	150	W
Junction and Storage Temperature	T_J, T_{STG}	- 50 ~ +150	$^\circ C$

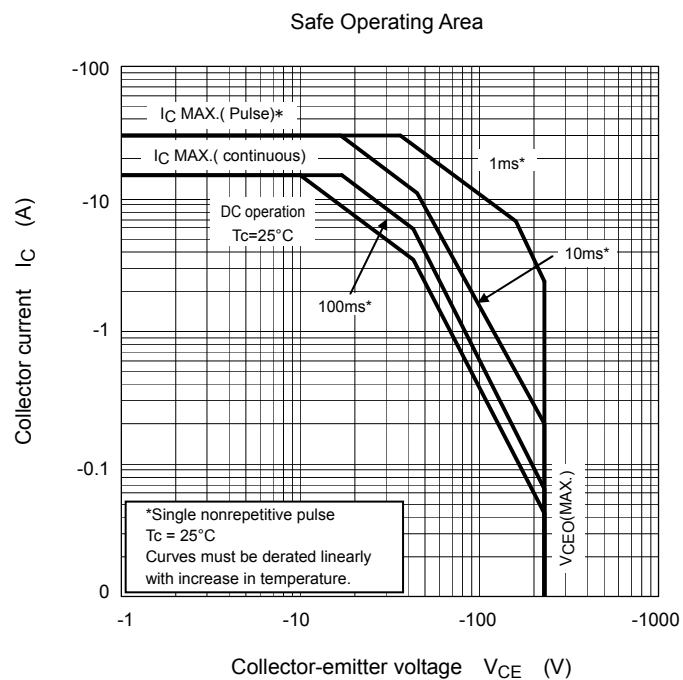
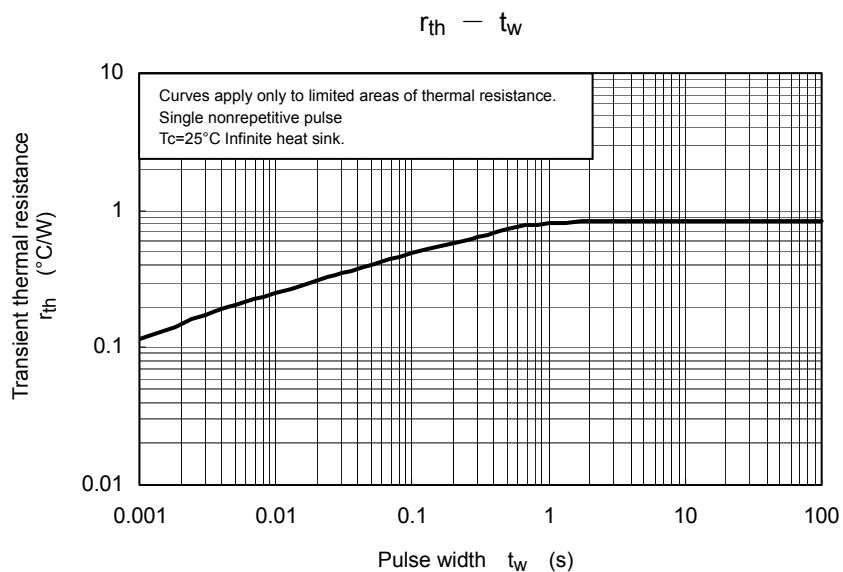
■ Electrical Characteristics ($T_C=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=-5mA, I_E=0$	-230	-	-	V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=-10mA, R_{BE}=\infty$	-230	-	-	V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=-5mA, I_C=0$	-5	-	-	V
Collector Cut-off Current	I_{CBO}	$V_{CB}=-230V, I_E=0$	-	-	-5.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-5.0	μA
DC Current Gain	h_{FE1}	$V_{CE}=-5V, I_C=-1A$	55	-	160	
DC Current Gain	h_{FE2}	$V_{CE}=-5V, I_C=-7A$	35	60		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-8A, I_B=-0.8A$	-	-0.4	-3.0	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE}=-5V, I_C=-7A$	-	-1.0	-1.5	V
Current Gain Bandwidth Product	f_T	$V_{CE}=-5V, I_C=-1A$	-	30	-	MHz
Output Capacitance	C_{ob}	$V_{CB}=-10V, f=1MHz$	-	240	-	pF

■ Typical Performance Characteristics



■ Typical Performance Characteristics(Cont.)



■ TO-3PL Package mechanical data

