

Product characteristics

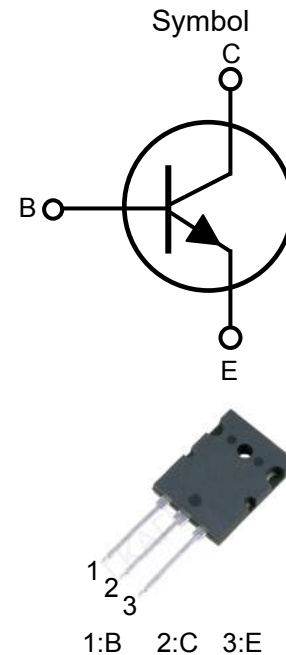
V_{CBO}	230V
V_{CEO}	230V
I_C	15A

Applications

High-Fidelity Audio Output Amplifier
General Purpose Power Amplifier

Features

High Voltage : $V_{CEO}=230V$
Complement to TTA1943



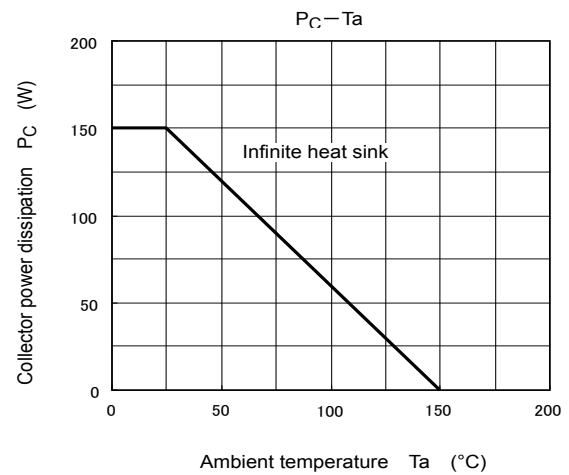
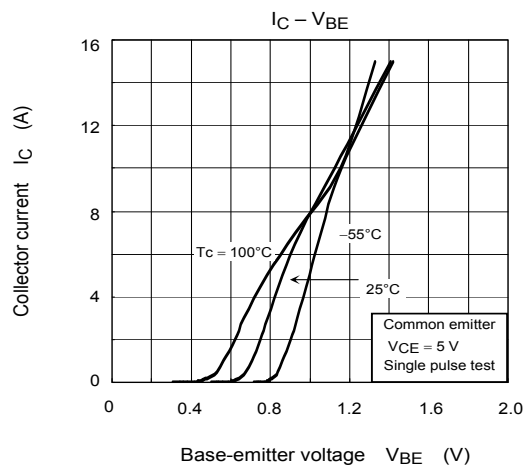
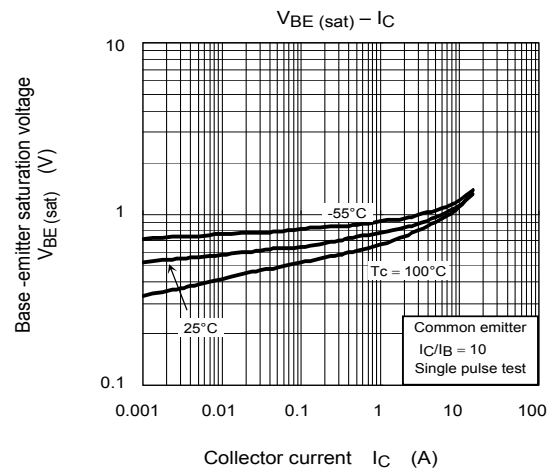
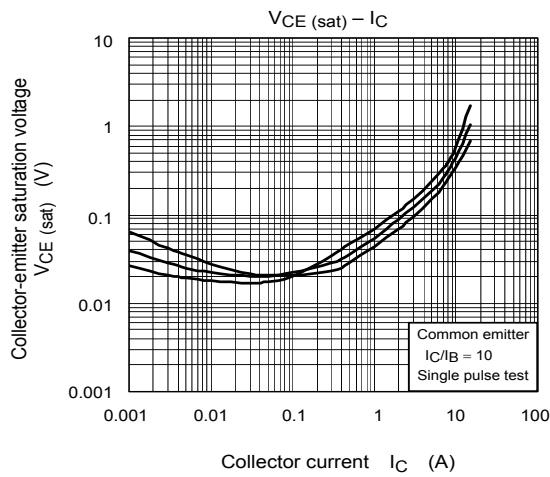
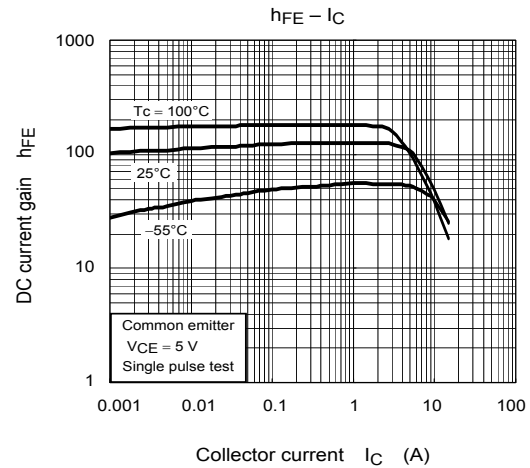
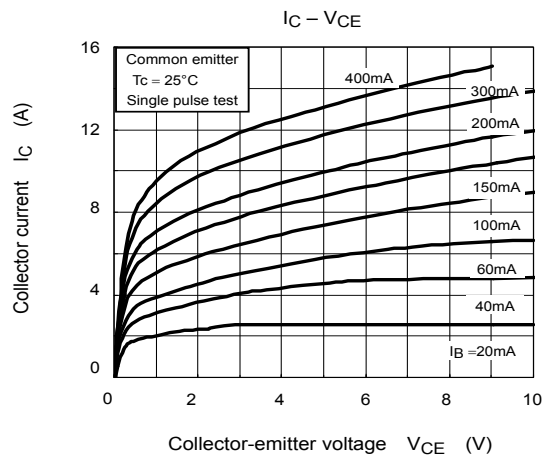
Absolute Maximum Ratings ($T_C=25^\circ C$ unless otherwise specified)

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	$^\circ C$

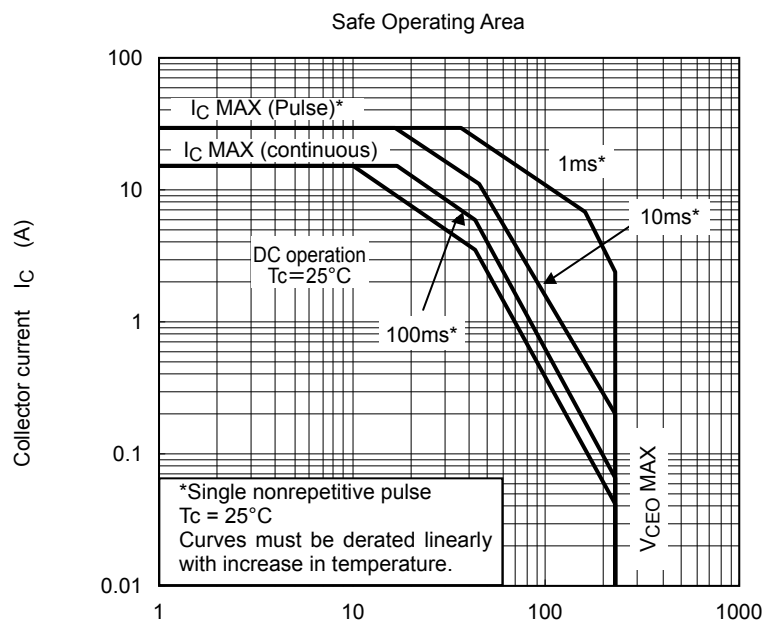
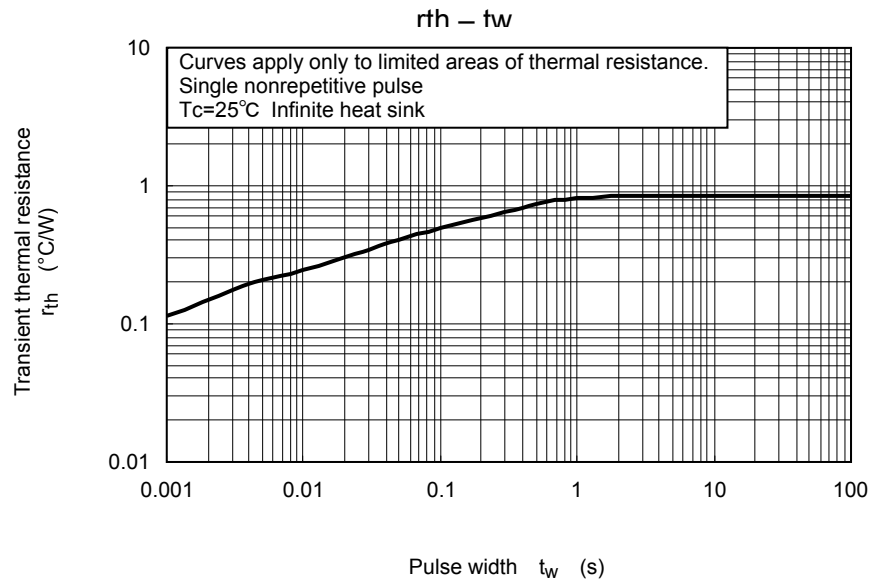
Electrical Characteristics ($T_C=25^\circ C$ unless otherwise specified)

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	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=8A, I_B=0.8A$	-	0.4	3.0	V
Current Gain Bandwidth Product	f_T	$V_{CE}=5V, I_C=1A$	-	30	-	MHz
Output Capacitance	C_{ob}	$V_{CB}=10V, f=1MHz$	-	145	-	pF

Typical Performance Characteristics



Typical Performance Characteristics



■ TO-3PL Package mechanical data

