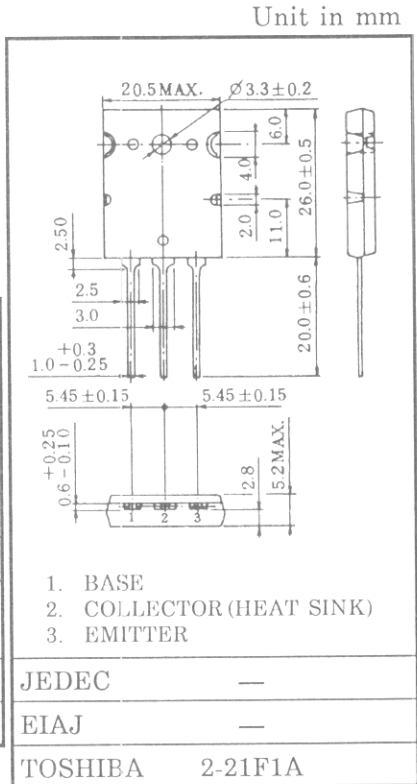


(2SA1302)
POWER AMPLIFIER APPLICATIONS.

- Complementary to 2SC3281
- Recommend for 100W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	−200	V
Collector-Emitter Voltage	V _{CEO}	−200	V
Emitter-Base Voltage	V _{EBO}	−5	V
Collector Current	I _C	−15	A
Base Current	I _B	−1.5	A
Collector Power Dissipation (Tc = 25°C)	P _C	150	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	−55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} = −200V, I _E = 0	—	—	−5.0	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} = −5V, I _C = 0	—	—	−5.0	μA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = −50mA, I _B = 0	−200	—	—	V
DC Current Gain	h _{FE(1)} (Note)	V _{CE} = −5V, I _C = −1A	55	—	160	
	h _{FE(2)}	V _{CE} = −5V, I _C = −8A	35	60	—	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = −10A, I _B = −1A	—	−1.5	−3.0	V
Base-Emitter Voltage	V _{BE}	V _{CE} = −5V, I _C = −8A	—	−1.0	−1.5	V
Transition Frequency	f _T	V _{CE} = −5V, I _C = −1A	—	25	—	MHz
Collector Output Capacitance	C _{ob}	V _{CB} = −10V, I _E = 0, f = 1MHz	—	470	—	pF

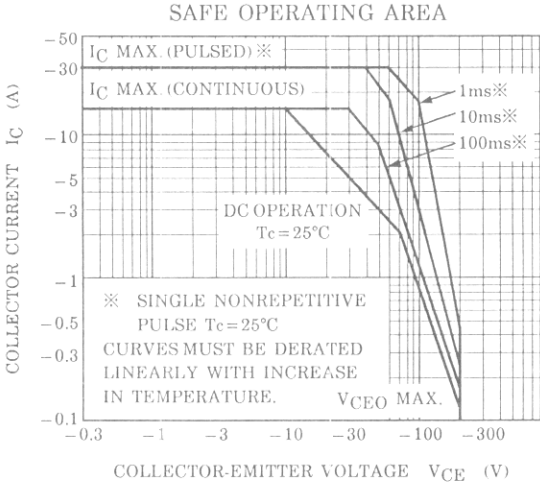
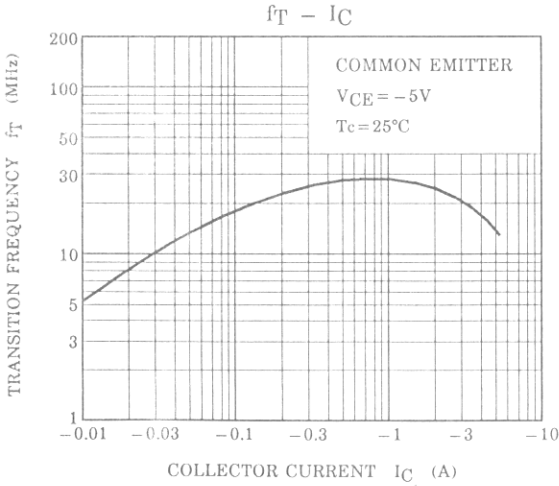
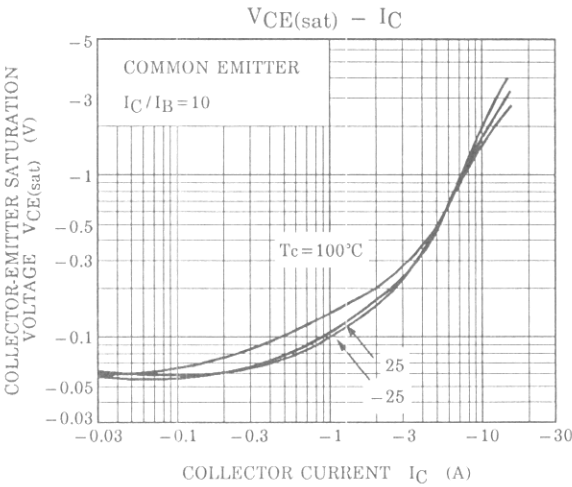
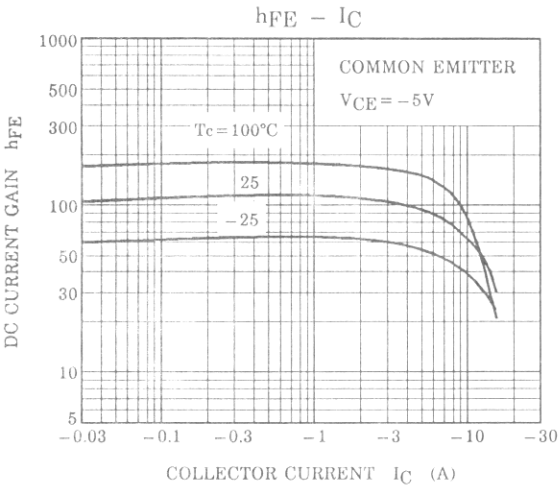
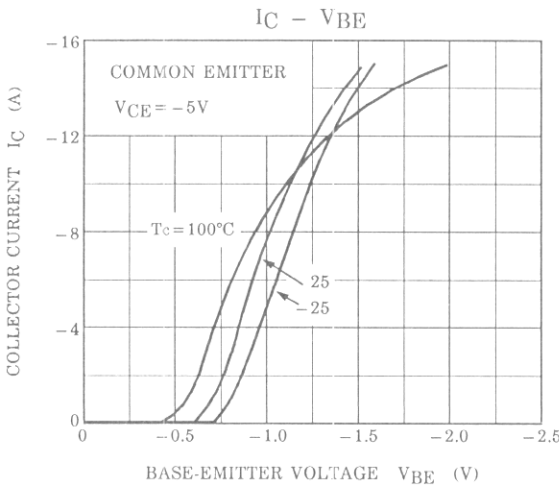
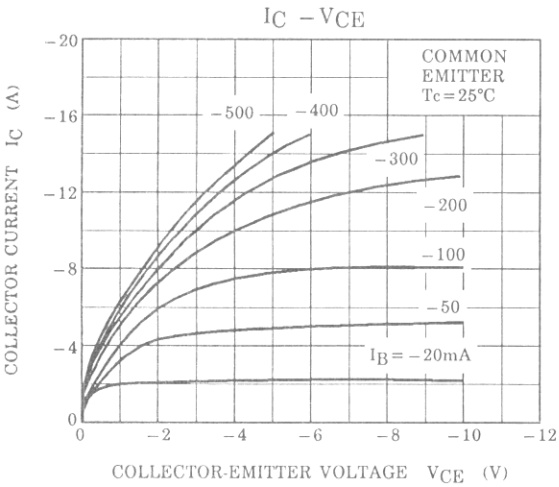
Note : h_{FE(1)} Classification R : 55~110, O : 80~160

Weight : 9.75g

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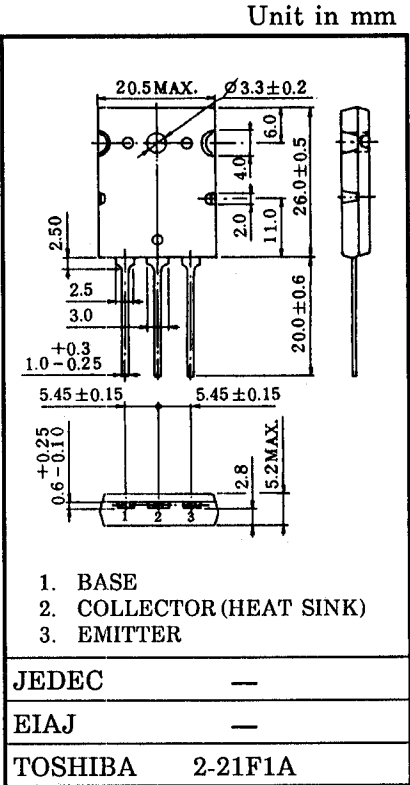
(2SA1302)

POWER AMPLIFIER APPLICATIONS.

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- Recommend for 100W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	VCBO	−200	V
Collector-Emitter Voltage	VCEO	−200	V
Emitter-Base Voltage	VEBO	−5	V
Collector Current	IC	−15	A
Base Current	IB	−1.5	A
Collector Power Dissipation (Tc=25°C)	PC	150	W
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	−55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Weight : 9.75g

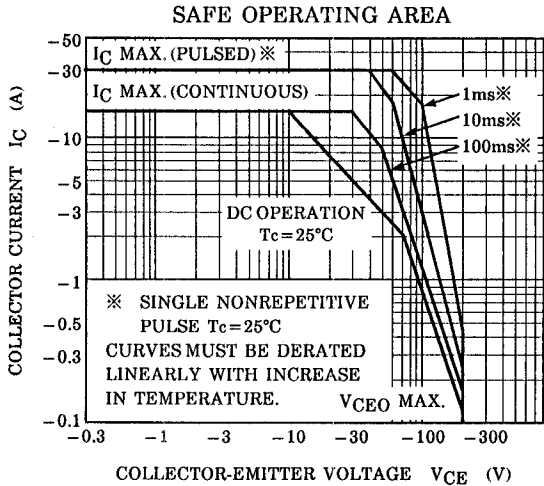
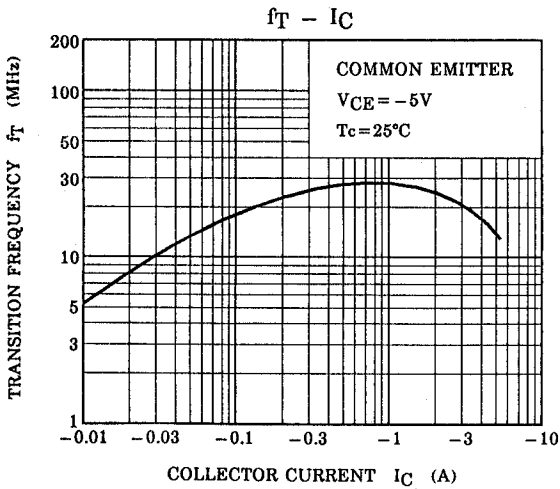
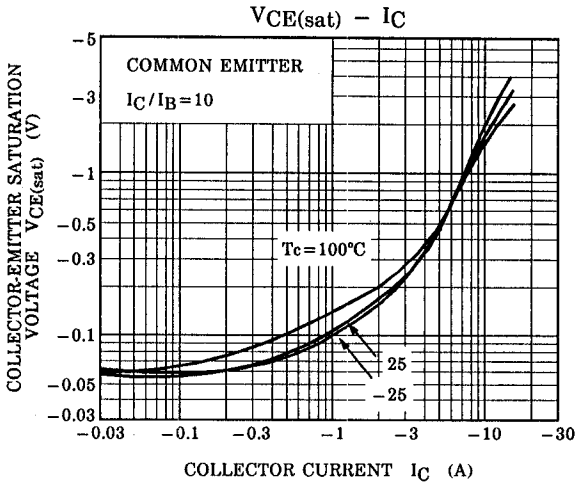
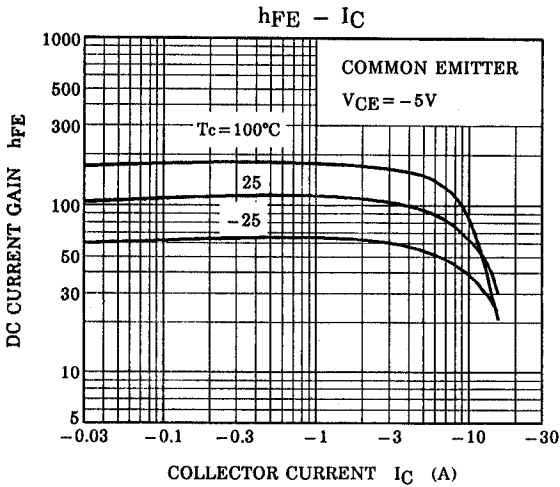
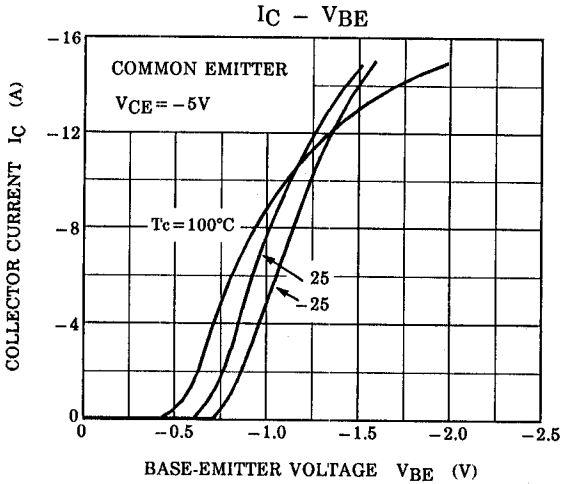
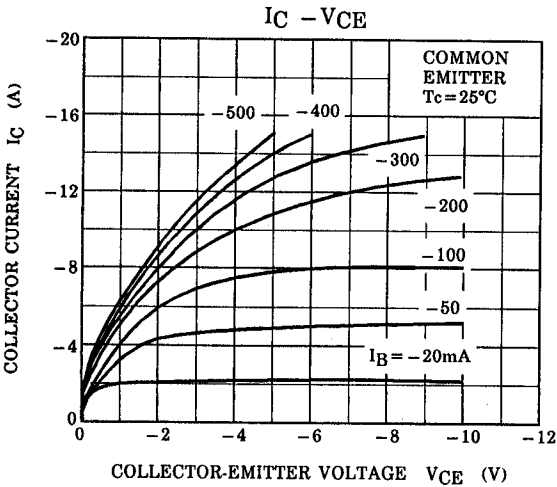
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	V _{CB} = −200V, I _E = 0	—	—	−5.0	μA
Emitter Cut-off Current	IEBO	V _{EB} = −5V, I _C = 0	—	—	−5.0	μA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = −50mA, I _B = 0	−200	—	—	V
DC Current Gain	h _{FE} (1) (Note)	V _{CE} = −5V, I _C = −1A	55	—	160	
	h _{FE} (2)	V _{CE} = −5V, I _C = −8A	35	60	—	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = −10A, I _B = −1A	—	−1.5	−3.0	V
Base-Emitter Voltage	V _{BE}	V _{CE} = −5V, I _C = −8A	—	−1.0	−1.5	V
Transition Frequency	f _T	V _{CE} = −5V, I _C = −1A	—	25	—	MHz
Collector Output Capacitance	C _{ob}	V _{CB} = −10V, I _E = 0, f = 1MHz	—	470	—	pF

Note : h_{FE}(1) Classification R : 55~110, O : 80~160

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