

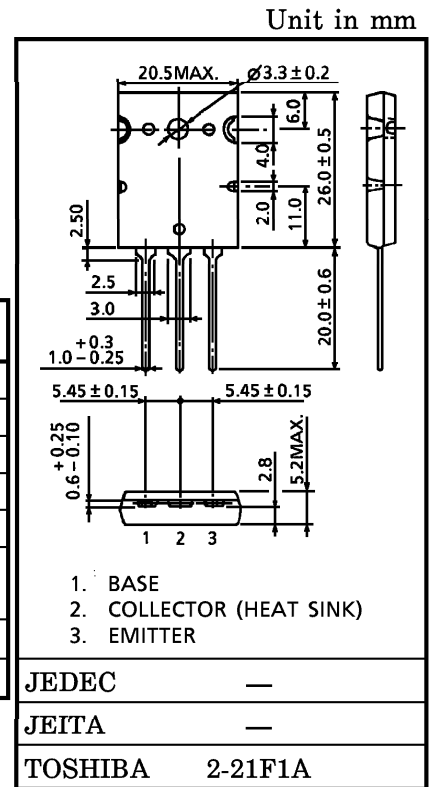
2SA1943

POWER AMPLIFIER APPLICATIONS

- Complementary to 2SC5200
- Recommended for 100 W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (T_c = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	-230	V
Collector-Emitter Voltage	V _{CEO}	-230	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-15	A
Base Current	I _B	-1.5	A
Collector Power Dissipation (T _c = 25°C)	P _C	150	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C



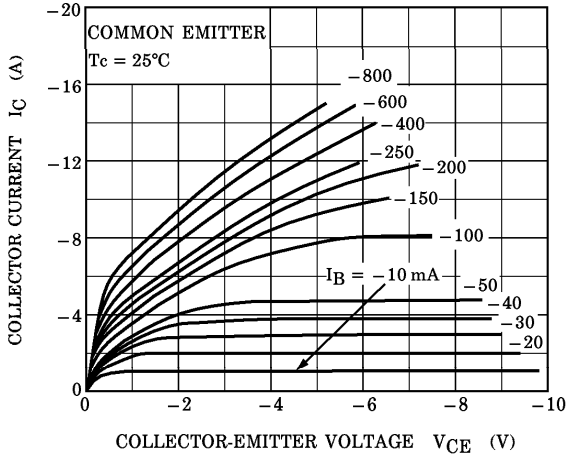
ELECTRICAL CHARACTERISTICS (T_c = 25°C)

Weight : 9.75 g (Typ.)

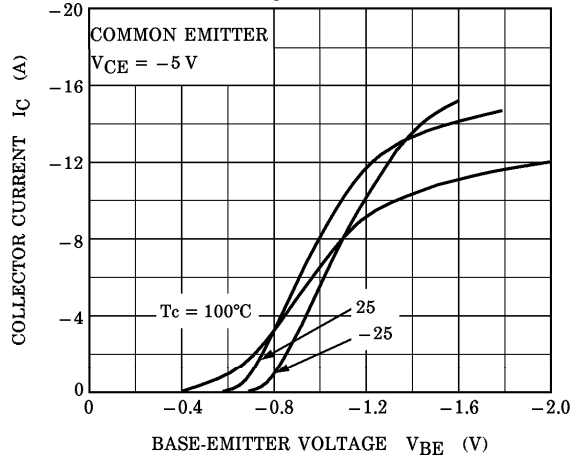
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CB0}	V _{CB} = -230 V, I _E = 0	—	—	-5.0	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} = -5 V, I _C = 0	—	—	-5.0	μA
Collector-Emitter Breakdown Voltage	V _{(BR) CEO}	I _C = -50 mA, I _B = 0	-230	—	—	V
DC Current Gain	h _{FE} (1) (Note)	V _{CE} = -5 V, I _C = -1 A	55	—	160	
	h _{FE} (2)	V _{CE} = -5 V, I _C = -7 A	35	60	—	
Collector-Emitter Saturation Voltage	V _{CE (sat)}	I _C = -8 A, I _B = -0.8 A	—	-1.5	-3.0	V
Base-Emitter Voltage	V _{BE}	V _{CE} = -5 V, I _C = -7 A	—	-1.0	-1.5	V
Transition Frequency	f _T	V _{CE} = -5 V, I _C = -1 A	—	30	—	MHz
Collector Output Capacitance	C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	—	360	—	pF

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

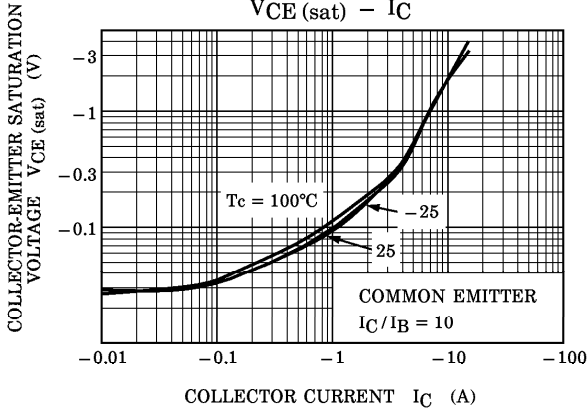
$I_C - V_{CE}$



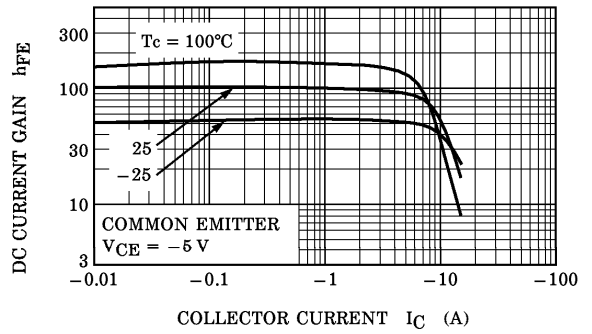
$I_C - V_{BE}$



$V_{CE(sat)} - I_C$



$h_{FE} - I_C$



SAFE OPERATING AREA

