

Transistor

Silicon NPN Triple Diffused Type

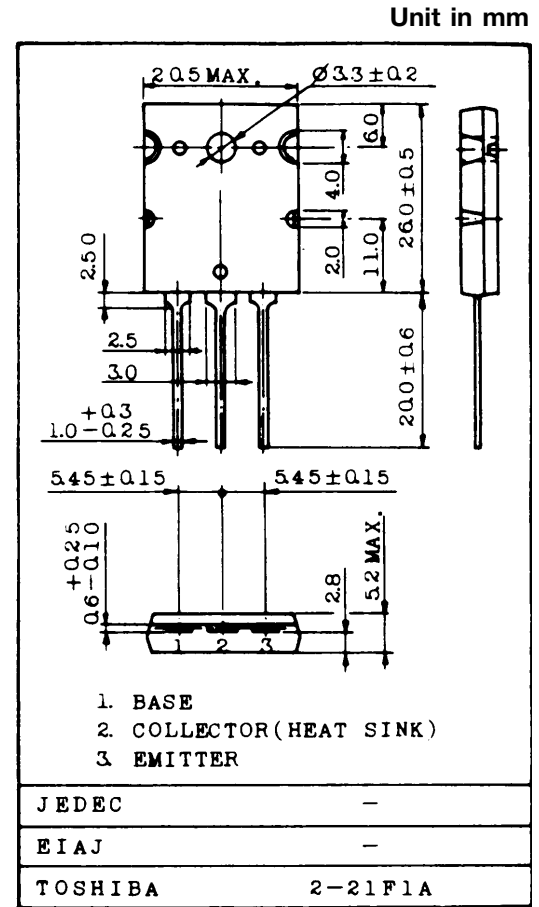
Power Amplifier Applications

Features

- Complementary to 2SA1302
- Recommended for 100W High Fidelity Audio Frequency Amplifier Output Stage

Absolute Maximum Ratings (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	200	V
Collector-Emitter Voltage	V _{CE0}	200	V
Emitter-Base Voltage	V _{EB0}	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

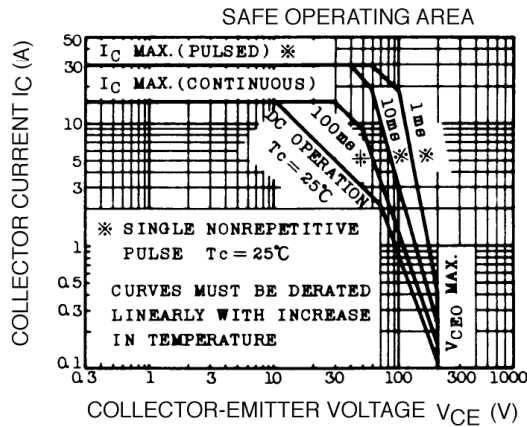
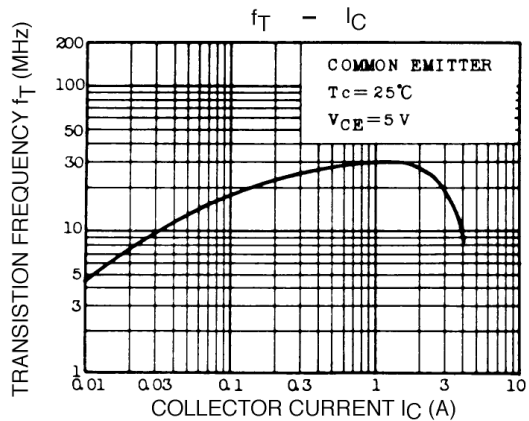
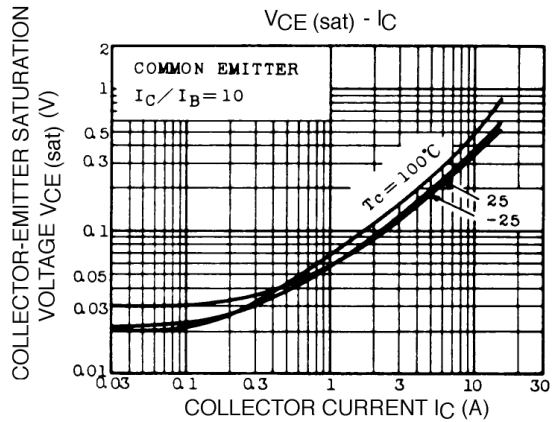
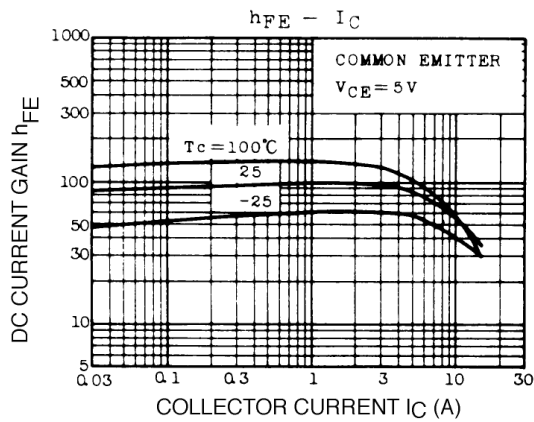
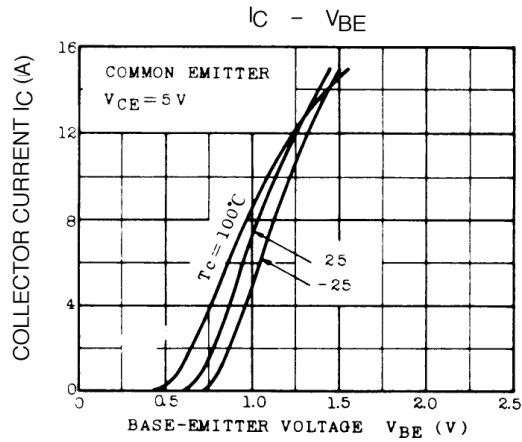
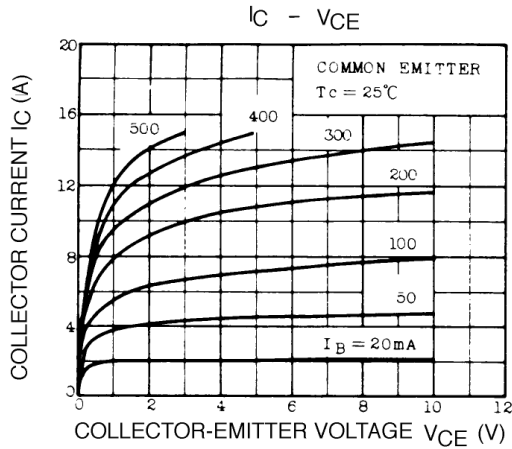


Weight : 9.75g

Electrical Characteristics (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CB0}	V _{CB} = 200V, I _E = 0	-	-	5.0	μA
Emitter Cut-off Current	I _{EB0}	V _{EB} = 5V, I _C = 0	-	-	5.0	μA
Collector-Emitter Breakdown Voltage	V _{(BR) CE0}	I _C = 50mA, I _B = 0	200	-	-	V
DC Current Gain	h _{FE(1)} (Note)	V _{CE} = 5V, I _C = 1mA	55	-	160	
	h _{FE(2)}	V _{CE} = 5V, I _C = 8A	35	60	-	
Saturation Voltage Collector-Emitter	V _{CE(sat)}	I _C = 10A, I _B = 1A	-	0.40	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	-	30	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f = 1MHz	-	270	-	pF

Note: h_{FE} (1) Classification R : 0: 55 ~ 110, O : 80 ~ 160



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