

Transistor

Silicon PNP Epitaxial Type (PCT Process)

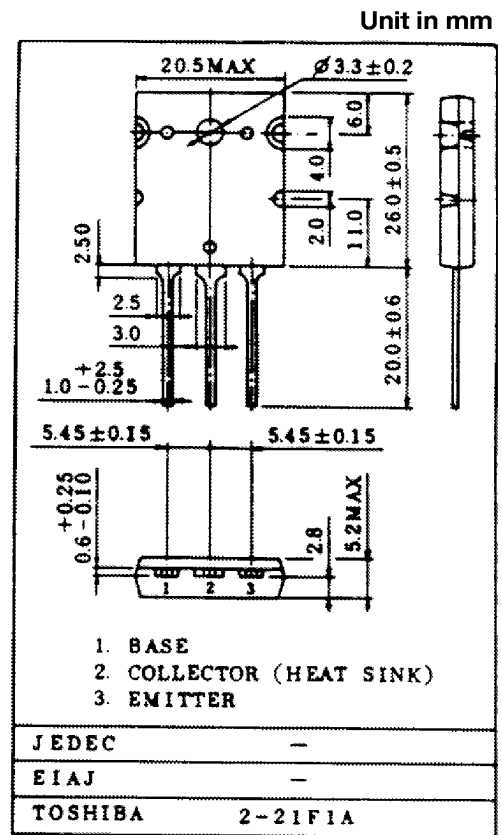
Power Amplifier Applications

Features

- Complementary to 2SD2155
- Recommend for 100W High Fidelity Audio Frequency
- Amplifier Output Stage

Absolute Maximum Ratings (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-180	V
Collector-Emitter Voltage	V_{CEO}	-180	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-15	A
Base Current	I_B	-1.5	A
Collector Power Dissipation ($T_c = 25^\circ\text{C}$)	P_C	150	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$

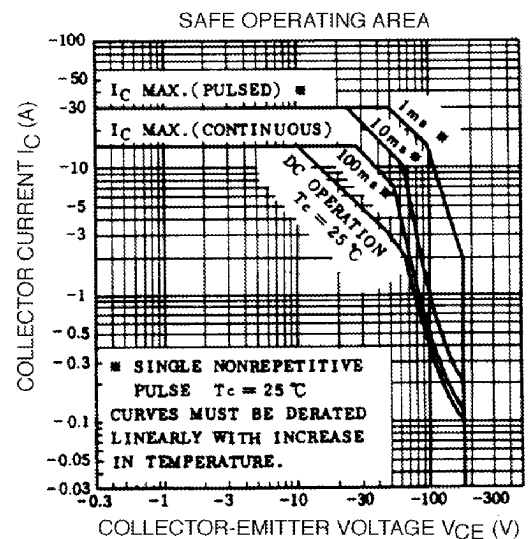
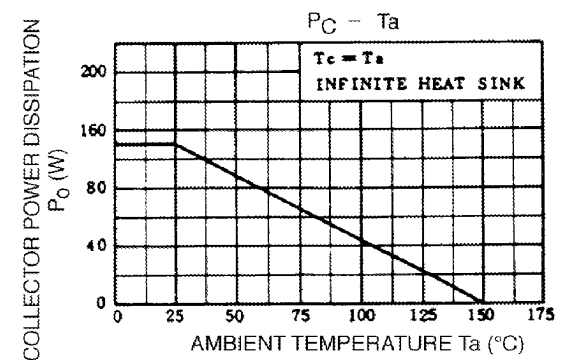
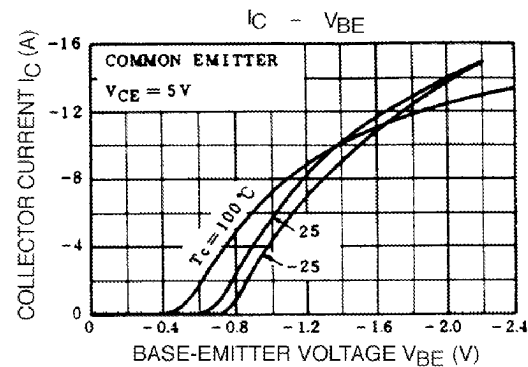
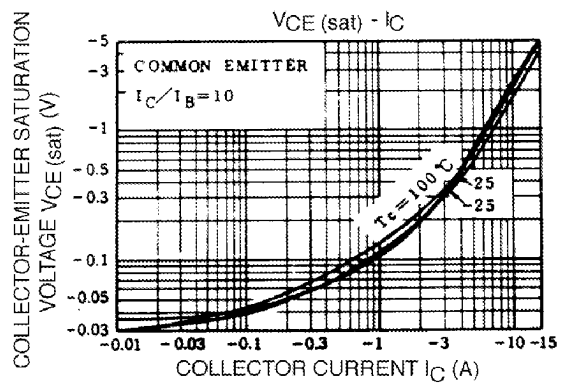
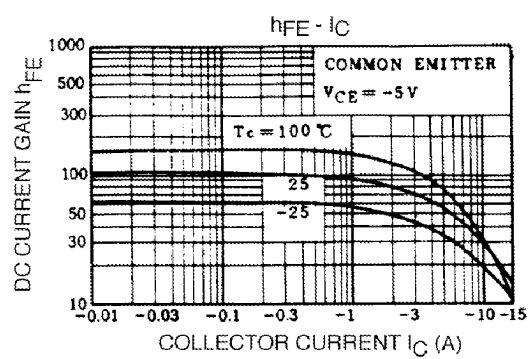
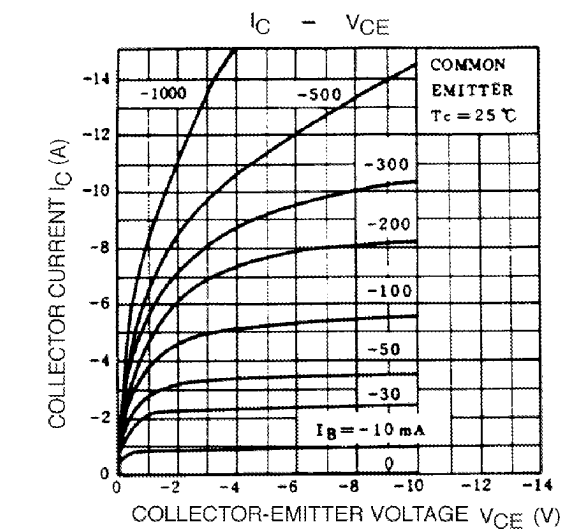


Weight : 9.7g

Electrical Characteristics (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -180V, I_E = 0$	—	—	-5.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	—	—	-5.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR) CEO}$	$I_C = -50mA, I_B = 0$	-180	—	—	V
DC Current Gain	$h_{FE(1)(N_{OPE})}$	$V_{CE} = -5V, I_C = -1A$	55	—	160	
	$h_{FE(2)}$	$V_{CE} = -5V, I_C = -6A$	30	—	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -8A, I_B = -0.8A$	—	—	-3.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V, I_C = -6A$	—	—	-1.5	V
Transition Frequency	f_T	$V_{CE} = -5V, I_C = -1A$	—	10	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	—	340	—	pF

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



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