Transistor

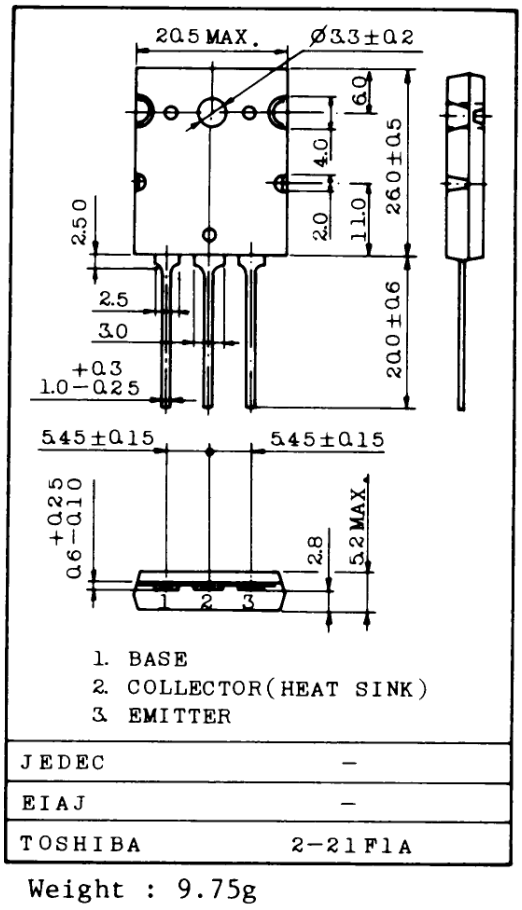
Silicon PNP Epitaxial Type (PCT Process)

For General Purpose Switching and Amplifier Applications

Features

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

Unit in mm



Weight : 9.75g

Absolute Maximum Ratings (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-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 = -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	–	-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 : 0: 55 ~ 110, O : 80 ~ 160