

## 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)

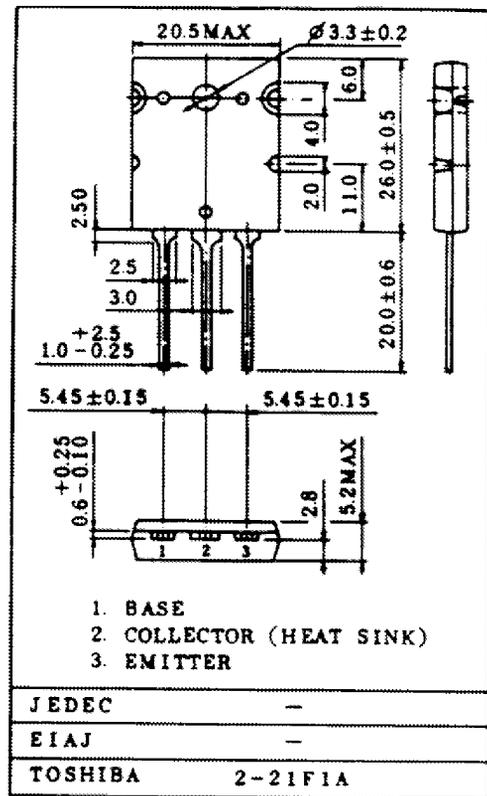
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	-180	V
Collector-Emitter Voltage	$V_{CE0}$	-180	V
Emitter-Base Voltage	$V_{EB0}$	-5	V
Collector Current	$I_C$	-15	A
Base Current	$I_B$	-1.5	A
Collector Power Dissipation (Tc = 25°C)	$P_C$	150	W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C

#### Electrical Characteristics (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CB0}$	$V_{CB} = -180V, I_E = 0$	-	-	-5.0	$\mu A$
Emitter Cut-off Current	$I_{EB0}$	$V_{EB} = -5V, I_C = 0$	-	-	-5.0	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C = -50mA, I_B = 0$	-180	-	-	V
DC Current Gain	$h_{FE(1)(N012E)}$	$V_{CE} = -5V, I_C = -1A$	55	-	160	
		$V_{CE} = -5V, I_C = -6A$	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

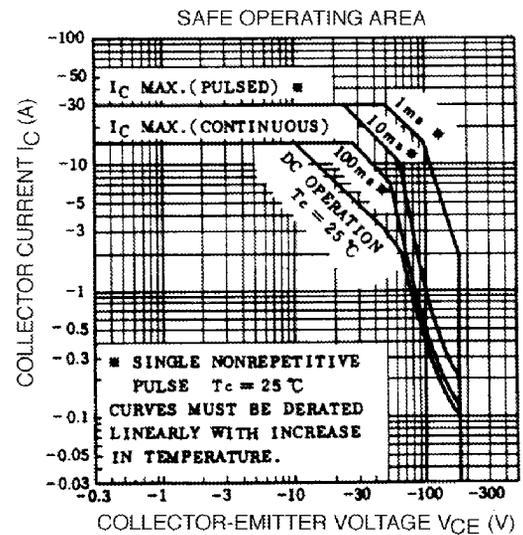
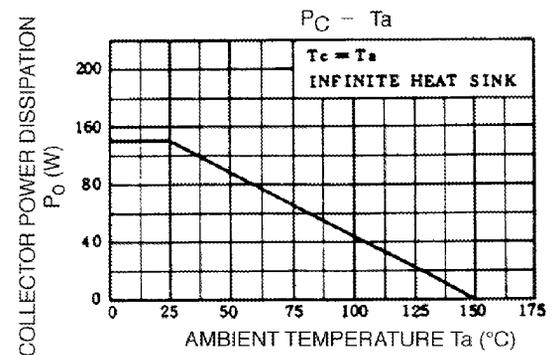
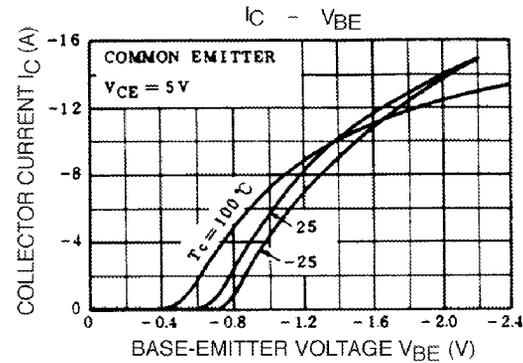
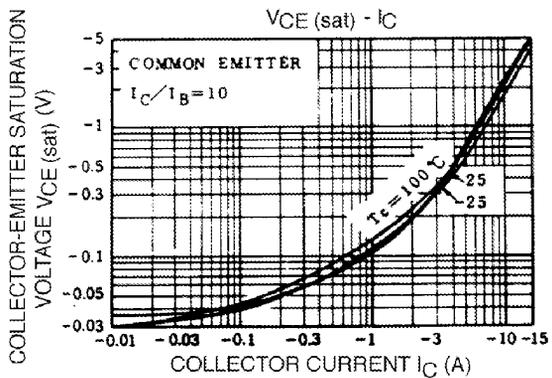
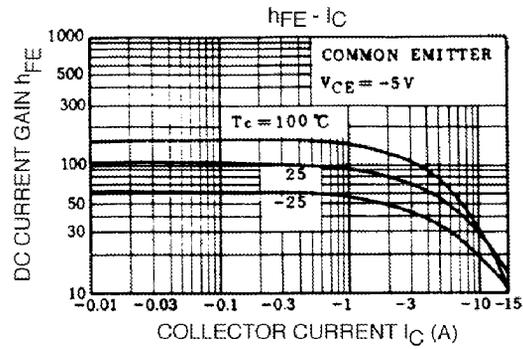
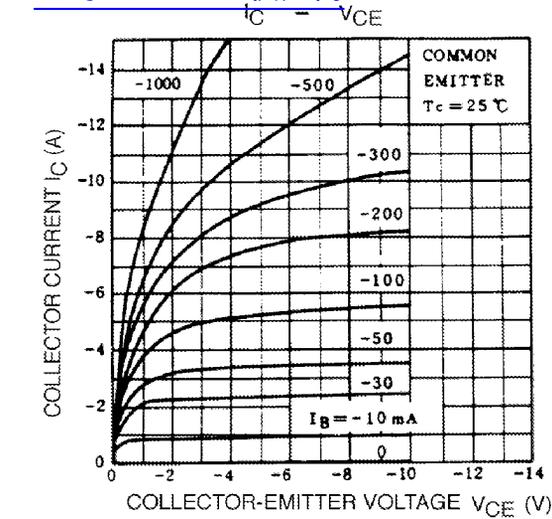
Note:  $h_{FE}$  (1) Classification R : 0 : 55 ~ 110, 0 : 80 ~ 160

Unit in mm



Weight : 9.7g

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