Transistor

Silicon NPN Triple Diffused Type

Power Amplifier Applications

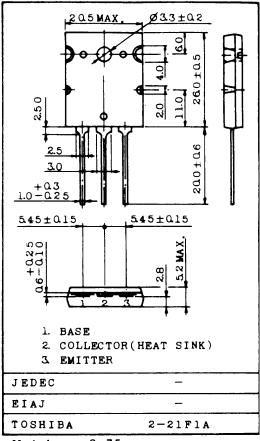
Features

- 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 _{CBO}	200	V	
Collector-Emitter Voltage	V _{CEO}	200	V	
Emitter-Base Voltage	V _{EBO}	5	V	
Collector Current	I _C	15	Α	
Base Current	I _B	1.5	А	
Collector PowerDissipation (Tc = 25°C)	P _C	150	W	
Junction Temperature	T _j	150	°C	
Storage Temperature Range	T _{stg}	-55 ~ 150	°C	

Unit in mm Ø33±02



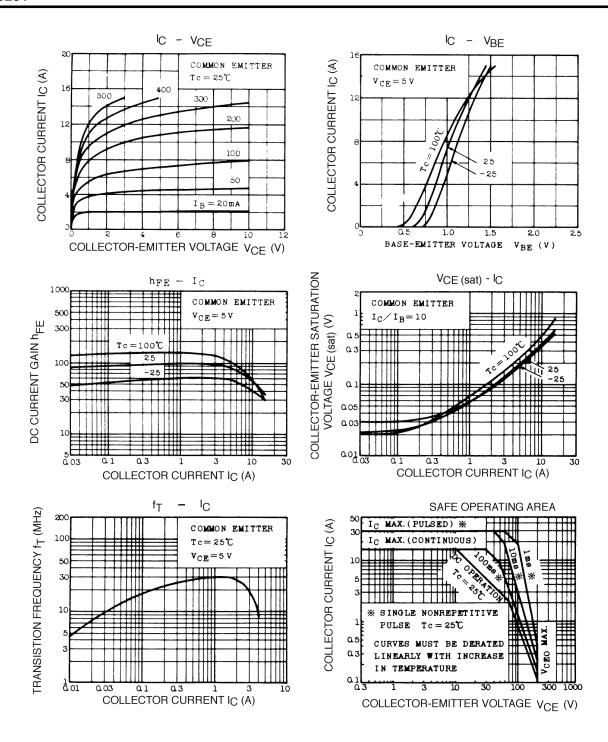
Weight: 9.75g

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	μΑ
Emitter Cut-off Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$	-	-	5.0	μA
Collector-Emitter Breakdown Voltage	V _{(BR) CEO}	$I_C = 50 \text{mA}, I_B = 0$	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_{FF} (1) Classification R : 0: 55 ~ 110, 0 : 80 ~ 160

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