

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

## 2SD2155

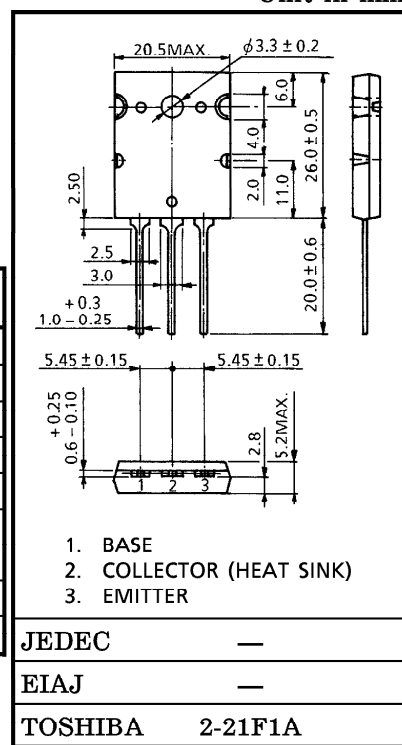
## POWER AMPLIFIER APPLICATIONS

- Complementary to 2SB1429
- Recommend for 100W High Fidelity Audio Frequency Amplifier Output Stage.

## MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	180	V
Collector-Emitter Voltage	V <sub>CEO</sub>	180	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	I <sub>C</sub>	15	A
Base Current	I <sub>B</sub>	1.5	A
Collector Power Dissipation (T <sub>c</sub> = 25°C)	P <sub>C</sub>	150	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55~150	°C

Unit in mm



Weight : 9.7g (Typ.)

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CBO</sub>	V <sub>CB</sub> = 180V, I <sub>E</sub> = 0	—	—	5.0	μA
Emitter Cut-off Current	I <sub>EBO</sub>	V <sub>EB</sub> = 5V, I <sub>C</sub> = 0	—	—	5.0	μA
Collector-Emitter Breakdown Voltage	V (BR) CEO	I <sub>C</sub> = 50mA, I <sub>B</sub> = 0	180	—	—	V
DC Current Gain	h <sub>FE</sub> (1) (Note)	V <sub>CE</sub> = 5V, I <sub>C</sub> = 1A	55	—	160	
	h <sub>FE</sub> (2)	V <sub>CE</sub> = 5V, I <sub>C</sub> = 6A	30	—	—	
Collector Emitter Saturation Voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> = 8A, I <sub>B</sub> = 0.8A	—	—	2.0	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> = 5V, I <sub>C</sub> = 6A	—	—	1.5	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> = 5V, I <sub>C</sub> = 1A	—	10	—	MHz
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0, f = 1MHz	—	160	—	pF

Note : h<sub>FE</sub>(1) Classification R : 55~110, O : 80~160

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