

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

# 2SC2236

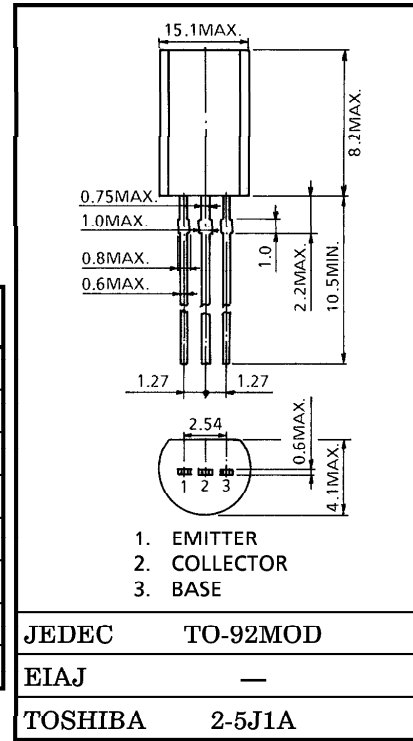
AUDIO POWER AMPLIFIER APPLICATIONS.

Unit in mm

- Complementary to 2SA966 and 3 Watts Output Applications.

**MAXIMUM RATINGS (Ta = 25°C)**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	30	V
Collector-Emitter Voltage	V <sub>CEO</sub>	30	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	I <sub>C</sub>	1.5	A
Base Current	I <sub>B</sub>	0.15	A
Collector Power Dissipation	P <sub>C</sub>	900	mW
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55~150	°C



**ELECTRICAL CHARACTERISTICS (Ta = 25°C)**

Weight : 0.36g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CB0</sub>	V <sub>CB</sub> = 30V, I <sub>E</sub> = 0	—	—	100	nA
Emitter Cut-off Current	I <sub>EBO</sub>	V <sub>EB</sub> = 5V, I <sub>C</sub> = 0	—	—	100	nA
Collector-Emitter Breakdown Voltage	V (BR) CEO	I <sub>C</sub> = 10mA, I <sub>B</sub> = 0	30	—	—	V
Emitter-Base Breakdown Voltage	V (BR) EBO	I <sub>E</sub> = 1mA, I <sub>C</sub> = 0	5	—	—	V
DC Current Gain	h <sub>FE</sub> (Note)	V <sub>CE</sub> = 2V, I <sub>C</sub> = 500mA	100	—	320	
Collector-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> = 1.5A, I <sub>B</sub> = 0.03A	—	—	2.0	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> = 2V, I <sub>C</sub> = 500mA	—	—	1.0	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> = 2V, I <sub>C</sub> = 500mA	—	120	—	MHz
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0, f = 1MHz	—	—	30	pF

Note : h<sub>FE</sub> Classification    O : 100~200,    Y : 160~320

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