

# 2SB688

SILICON PNP TRIPLE DIFFUSED TYPE

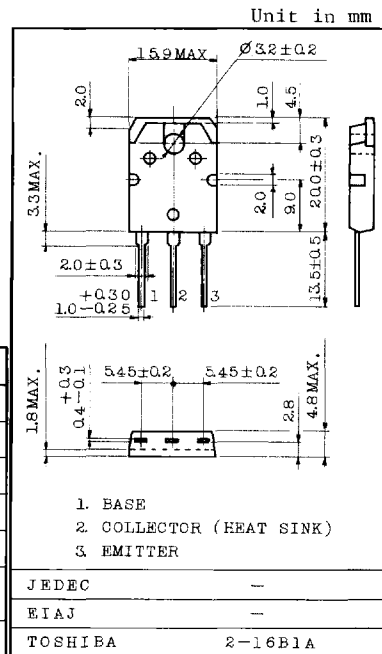
AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

FEATURES:

- . Complementary to 2SD718.
- . Recommended for 45~50W audio frequency amplifier output stage.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	-120	V
Collector-Emitter Voltage	V <sub>CE0</sub>	-120	V
Emitter-Base Voltage	V <sub>EB0</sub>	-5	V
Collector Current	I <sub>C</sub>	-8	A
Base Current	I <sub>B</sub>	-0.8	A
Collector Power Dissipation (T <sub>c</sub> =25°C)	P <sub>C</sub>	80	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55 ~ 150	°C



Weight : 4.6g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CB0</sub>	V <sub>CB</sub> = -120V, I <sub>E</sub> = 0	-	-	-10	μA
Emitter Cut-off Current	I <sub>EB0</sub>	V <sub>EB</sub> = -5V, I <sub>C</sub> = 0	-	-	-10	μA
Collector-Emitter Breakdown Voltage	V <sub>(BR)CE0</sub>	I <sub>C</sub> = -50mA, I <sub>B</sub> = 0	-120	-	-	V
DC Current Gain	h <sub>FE</sub> (Note)	V <sub>CE</sub> = -5V, I <sub>C</sub> = -1A	55	-	160	
Collector Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = -5A, I <sub>B</sub> = -0.5A	-	-	-2.5	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -5A	-	-	-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	-	280	-	pF

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

