

## POWER AMPLIFIER APPLICATIONS.

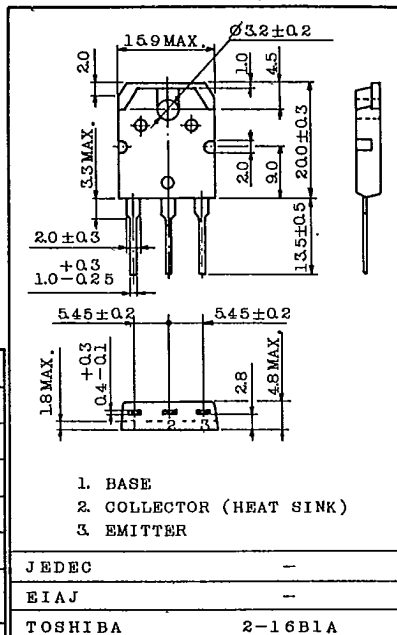
## FEATURES:

- Complementary to 2SC3180
- Recommend for 40W High Fidelity Audio Frequency Amplifier Output Stage.

## MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	-80	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-80	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5	V
Collector Current	I <sub>C</sub>	-6	A
Base Current	I <sub>B</sub>	-0.6	A
Collector Power Dissipation (T <sub>c</sub> =25°C)	P <sub>C</sub>	60	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55 ~ 150	°C

Unit in mm



## 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> =80V, 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	-80	-	-	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> =-3A	35	80	-	-
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-5A, I <sub>B</sub> =-0.5A	-	-1.0	-2.0	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> =-5V, I <sub>C</sub> =-3A	-	-0.95	-1.5	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A	-	30	-	MHz
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz	-	-	-	pF

Note : h<sub>FE</sub>(1) Classification R : 55 ~ 110 . 0 : 80 ~ 160

