

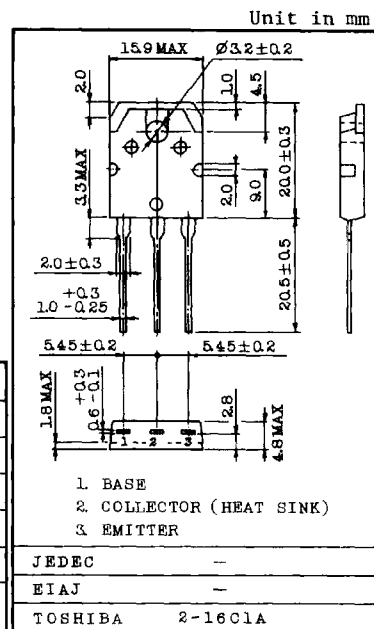
## POWER AMPLIFIER APPLICATIONS.

## FEATURES:

- High Collector Voltage :  $V_{CE0} = -180V$  (Min.)
- Complementary to 2SC3907
- Recommend for 80W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS ( $T_a = 25^\circ C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-180	V
Collector-Emitter Voltage	$V_{CEO}$	-180	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-12	A
Base Current	$I_B$	-1.2	A
Collector Power Dissipation ( $T_c = 25^\circ C$ )	$P_C$	130	W
Junction Temperature	$T_j$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55~150	$^\circ C$



Weight : 4.7g

ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -180V, I_E = 0$	-	-	-5.0	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$	-	-	-5.0	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50mA, I_B = 0$	-180	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5V, I_C = -1A$	55	-	180	-
	$h_{FE(2)}$	$V_{CE} = -5V, I_C = -7A$	35	80	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -8A, I_B = -0.8A$	-	-1.5	-3.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = -5V, I_C = -7A$	-	-1.0	-1.5	V
Transition Frequency	$f_T$	$V_{CE} = -5V, I_C = -1A$	-	25	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	470	-	pF

Note :  $h_{FE(1)}$  Classification R : 55-110 O : 90-180

