

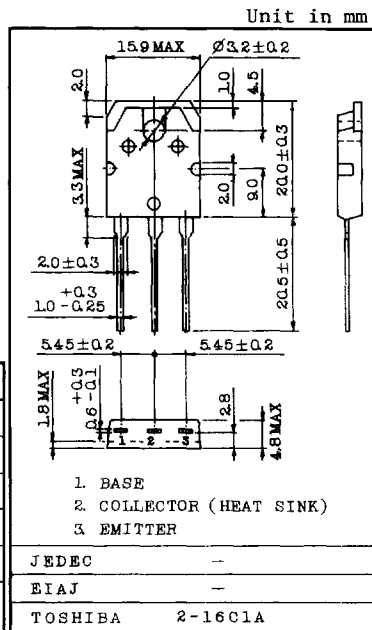
POWER AMPLIFIER APPLICATIONS.

FEATURES:

- High Collector Breakdown Voltage : $V_{CEO}=180V$ (Min.)
- Complementary to 2SA1516
- 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	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	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	5.0	μA
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	70	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=8A, I_B=0.8A$	-	0.3	2.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5V, I_C=7A$	-	1.0	1.5	V
Transition Frequency	f_T	$V_{CE}=5V, I_C=1A$	-	30	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	270	-	pF

Note : $h_{FE(1)}$ Classification R : 55~110, 0 : 90~180

