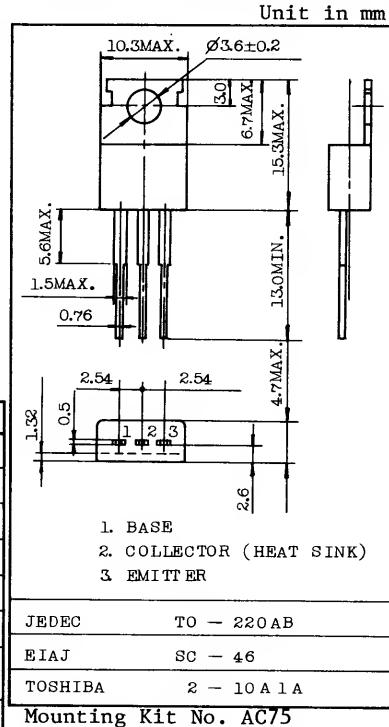


POWER AMPLIFIER APPLICATIONS.

FEATURES:

- High Breakdown Voltage : $V_{CEO}=100V$
- Low Collector Saturation Voltage : $V_{CE(sat)}=2.0V$ (Max.)
- Complementary to 2SB595.
- Recommended for 30W High Fidelity Audio Frequency Amplifier Output Stage.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	100	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	5	A
Emitter Current	I_E	-5	A
Base Current	I_B	4	A
Collector Power Dissipation ($T_c=25^{\circ}\text{C}$)	P_C	40	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}\text{C}$

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=100V$, $I_E=0$	-	-	100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V$, $I_C=0$	-	-	1	mA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50\text{mA}$, $I_B=0$	100	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\text{mA}$, $I_C=0$	5	-	-	V
DC Current Gain	$hFE(1)$ (Note)	$V_{CE}=5V$, $I_C=1A$	40	-	240	
	$hFE(2)$	$V_{CE}=5V$, $I_C=4A$	20	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4A$, $I_B=0.4A$	-	-	2.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5V$, $I_C=1A$	-	-	1.5	V
Transition Frequency	f_T	$V_{CE}=5V$, $I_C=1A$	-	12	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$, $I_E=0$, $f=1\text{MHz}$	-	100	-	pF

Note : $hFE(1)$ Classification R : 40~80, 0 : 70~140, Y : 120~240

