

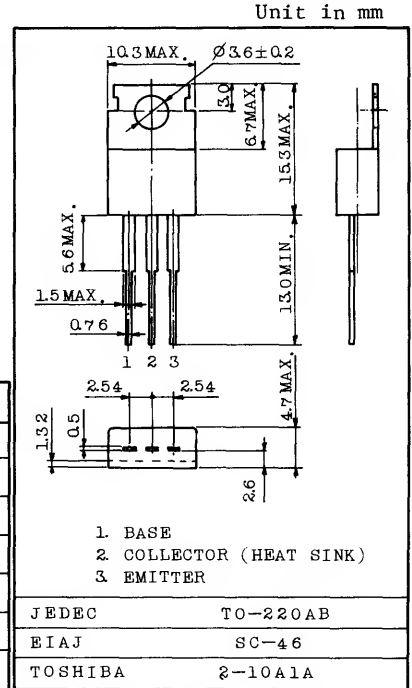
POWER AMPLIFIER APPLICATIONS.
TV VERTICAL OUTPUT APPLICATIONS.

FEATURES:

- . Good Linearity of h_{FE}
- . Complementary to S1237

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	90	V
Collector-Emitter Voltage	V_{CE0}	90	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	4	A
Emitter Current	I_E	-4	A
Base Current	I_B	3	A
Collector Power Dissipation ($T_c=25^\circ\text{C}$)	P_C	40	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 ~ 150	$^\circ\text{C}$



Mounting Kit No. AC75

Weight : 1.9g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=90\text{V}, I_E=0$	-	-	20	μA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=5\text{V}, I_C=0$	-	-	10	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=50\text{mA}, I_B=0$	90	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5\text{V}, I_C=0.5\text{A}$	40	-	200	
	$h_{FE(2)}$	$V_{CE}=5\text{V}, I_C=3\text{A}$	15	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=3\text{A}, I_B=0.3\text{A}$	-	-	1.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5\text{V}, I_C=3\text{A}$	-	-	1.5	V
Transition Frequency	f_T	$V_{CE}=5\text{V}, I_C=0.5\text{A}$	3	8	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$	-	85	-	pF

