

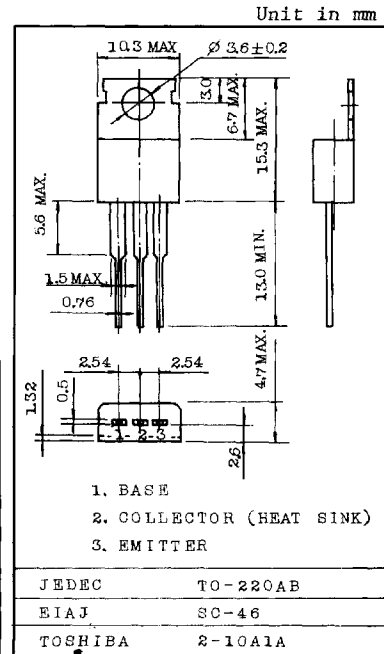
POWER AMPLIFIER APPLICATIONS.  
CAR RADIO AND CAR STEREO OUTPUT STAGE  
APPLICATIONS

## FEATURES:

- . Good Linearity of  $h_{FE}$ .
- . Complementary to 2SC1173.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-30	V
Collector-Emitter Voltage	$V_{CEO}$	-30	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-3	A
Emitter Current	$I_E$	3	A
Collector Power Dissipation ( $T_c=25^\circ\text{C}$ )	$P_c$	10	W
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-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	$I_{CBO}$	$V_{CB}=-20\text{V}, I_E=0$	-	-	-1.0	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-5\text{V}, I_C=0$	-	-	-1.0	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-10\text{mA}, I_B=0$	-30	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-1\text{mA}, I_C=0$	-5	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$	70	-	240	
	$h_{FE(2)}$	$V_{CE}=-2\text{V}, I_C=-2.5\text{A}$	25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-2\text{A}, I_B=-0.2\text{A}$	-	-0.3	-0.8	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$	-	-0.75	-1.0	V
Transition Frequency	$f_T$	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$	-	100	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$	-	40	-	pF

Note:  $h_{FE(1)}$  Classification    0 : 70~140, Y : 120~240

