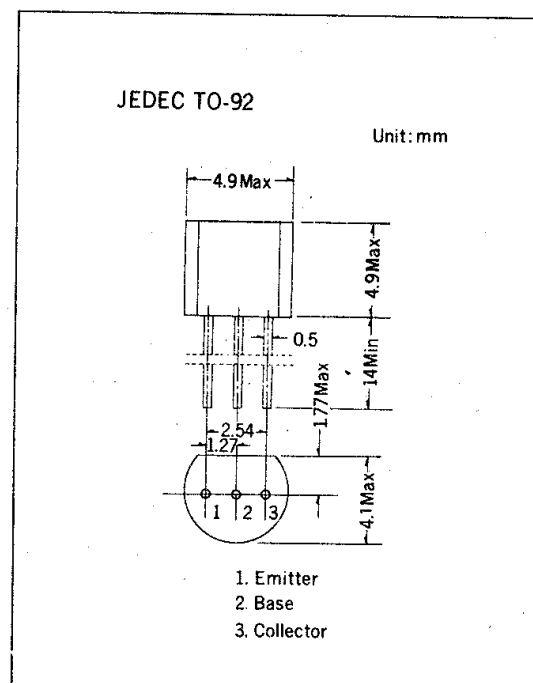


AUDIO FREQUENCY POWER AMPLIFIER

- Complement to KSB564A
- Collector Current $I_c = 1A$
- Collector Dissipation $P_c = 800mW$

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{cbo}	40	V
Collector-Emitter Voltage	V_{ceo}	30	V
Emitter-Base Voltage	V_{ebo}	5	V
Collector Current	I_c	1	A
Collector Dissipation	P_c	800	mW
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature	T_{stg}	-55 to +125	$^\circ C$



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

CHARACTERISTIC	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{cbo}	$I_c = 100\mu A, I_E = 0$	40			V
Collector-Emitter Breakdown Voltage	BV_{ceo}	$I_c = 10mA, R_{BE} = \infty$	30			V
Emitter-Base Breakdown Voltage	BV_{ebo}	$I_c = 100\mu A, I_c = 0$	5			V
Collector Cut-off Current	I_{cbo}	$V_{CB} = 30V, I_E = 0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = 1V, I_c = 100mA$	70		400	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_c = 1A, I_B = 0.1A$			0.6	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_c = 1A, I_B = 0.1A$			1.2	V
Current-Gain-Bandwidth Product	f_T	$V_{CE} = 6V, I_E = -10mA$		130		
Output Capacitance	C_{ob}	$V_{CB} = 6V, I_E = 0$ $f = 1MHz$		16		pF

h_{FE} CLASSIFICATION

CLASSIFICATION	O	Y	G
h_{FE}	70-140	120-240	200-400