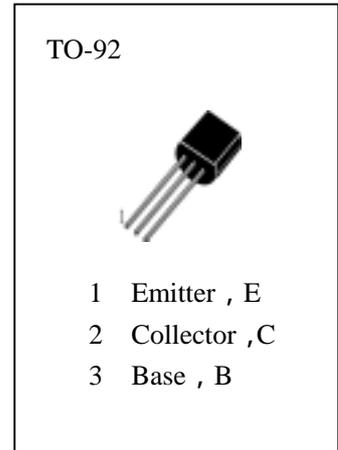




AUDIO POWER AMPLIFIER APPLICATIONS

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

- T_{stg} —Storage Temperature..... -55~150
- T_j —Junction Temperature.....150
- P_C —Collector Dissipation.....750mW
- V_{CBO} —Collector-Base Voltage.....30V
- V_{CEO} —Collector-Emitter Voltage.....30V
- V_{EBO} —Emitter-Base Voltage.....5V
- I_C —Collector Current.....2A



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV_{CBO}	Collector-Base Breakdown Voltage	30			V	$I_C=100 \mu A, I_E=0$
BV_{CEO}	Collector-Emitter Breakdown Voltage	30			V	$I_C=10mA, I_B=0$
BV_{EBO}	Emitter-Base Breakdown Voltage	5			V	$I_E=1mA, I_C=0$
I_{CBO}	Collector Cut-off Current			100	nA	$V_{CB}=30V, I_E=0$
I_{EBO}	Emitter-Base Cut-off Current			100	nA	$V_{EB}=5V, I_C=0$
h_{FE}	DC Current Gain	100		320		$V_{CE}=2V, I_C=500mA$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage			2	V	$I_C=1.5mA, I_B=30mA$
$V_{BE(ON)}$	Base-Emitter On Voltage			1	V	$V_{CE}=2V, I_C=500mA$
f_T	Current Gain-Bandwidth Product		120		MHZ	$V_{CE}=2V, I_C=500mA$
C_{ob}	Collector-Base Capacitance		30		pF	$V_{CB}=10V, I_E=0, f=1MHz$

h_{FE} Classification

O	Y
100—200	160—320