



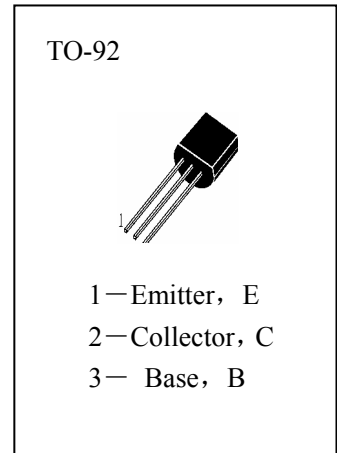
# H5610

## APPLICATIONS

AUDIO AMPLIFICATION

## ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

- T<sub>stg</sub>—Storage Temperature..... -55~150°C
- T<sub>j</sub>—Junction Temperature.....150°C
- P<sub>C</sub>—Collector Dissipation.....750mW
- V<sub>CB0</sub>—Collector-Base Voltage.....-25V
- V<sub>CEO</sub>—Collector-Emitter Voltage.....-20V
- V<sub>EBO</sub>—Emitter-Base Voltage.....-5V
- I<sub>C</sub>—Collector Current.....-1A



## ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CB0</sub>	Collector-Base Breakdown Voltage	-25			V	I <sub>C</sub> =-10 μ A, I <sub>E</sub> =0
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	-20			V	I <sub>C</sub> =-1mA, I <sub>B</sub> =0
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	-5			V	I <sub>E</sub> =-10 μ A, I <sub>C</sub> =0
I <sub>CBO</sub>	Collector Cut-off Current			-1	μ A	V <sub>CB</sub> =-20V, I <sub>E</sub> =0
h <sub>FE</sub>	DC Current Gain	60		240		V <sub>CE</sub> =-2V, I <sub>C</sub> =-500mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage		-0.2	-0.5	V	I <sub>C</sub> =-800mA, I <sub>B</sub> =-80mA
V <sub>BE(ON)</sub>	Base-Emitter On Voltage		-0.8	1	V	V <sub>CE</sub> =-2V, I <sub>C</sub> =-500mA
f <sub>T</sub>	Current Gain-Bandwidth Product		360		MHz	V <sub>CE</sub> =-2V, I <sub>C</sub> =-500mA
C <sub>ob</sub>	Output Capacitance		38		pF	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz

## h<sub>FE</sub> Classification

A	B	C
60—120	85—170	120—240