

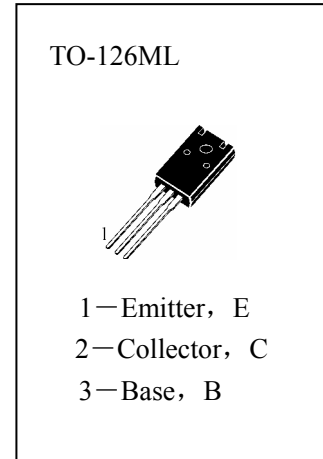
# H1609

## APPLICATIONS

. Audio Power Amplifie.

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

T <sub>stg</sub>	Storage Temperature	-45~150°C
T <sub>j</sub>	Junction Temperature	150°C
P <sub>C</sub>	Collector Dissipation (T <sub>A</sub> =25°C)	1.25W
V <sub>CBO</sub>	Collector-Base Voltage	160V
V <sub>CEO</sub>	Collector-Emitter Voltage	160V
V <sub>EBO</sub>	Emitter-Base Voltage	5V
I <sub>C</sub>	Collector Current	100mA



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

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	160			V	I <sub>C</sub> =10 μ A, I <sub>E</sub> =0
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	160			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			10	μ A	V <sub>CB</sub> =140V, I <sub>E</sub> =0
H <sub>FE</sub> (1)	DC Current Gain	60		320		V <sub>CE</sub> =5V, I <sub>C</sub> =10mA
H <sub>FE</sub> (2)	DC Current Gain	60				V <sub>CE</sub> =5V, I <sub>C</sub> =1mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage			2	V	I <sub>C</sub> =30mA, I <sub>B</sub> =3mA
f <sub>t</sub>	Current Gain-Bandwidth Product		140		MHz	V <sub>CE</sub> =5V, I <sub>C</sub> =10mA,
C <sub>ob</sub>	Output Capacitance			3.8	pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz

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

B	C	D
60—120	100—200	160—320