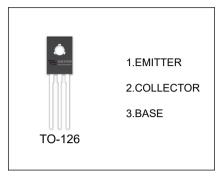


# MJE172 TRANSISTOR (PNP)

#### **FEATURES**

- Low Power Audio Amplifier
- Low Current, High Speed Switching Applications



#### **ORDERING INFORMATION**

Part Number	Package	Packing Method	Pack Quantity
MJE172	TO-126	Bulk	200pcs/Bag
MJE172-TU	TO-126	Tube	60pcs/Tube

### MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	-100	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-80	V
V <sub>EBO</sub>	Emitter-Base Voltage	-7	V
Ic	Collector Current	-3	Α
Pc	Collector Power Dissipation		W
R <sub>θJA</sub>	Thermal Resistance From Junction To Ambient	nal Resistance From Junction To Ambient 83	
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range -55~+150		$^{\circ}$



# $T_a$ =25 $^{\circ}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =-1mA,I <sub>E</sub> =0	-100			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-10mA,I <sub>B</sub> =0	-80			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =-1mA,I <sub>C</sub> =0	-7			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =-100V,I <sub>E</sub> =0			-0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =-7V,I <sub>C</sub> =0			-0.1	μA
DC current gain	h <sub>FE(1)</sub>	V <sub>CE</sub> =-1V, I <sub>C</sub> =-100mA	50		250	
	h <sub>FE(2)</sub>	V <sub>CE</sub> =-1V, I <sub>C</sub> =-500mA	30			
	h <sub>FE(3)</sub>	V <sub>CE</sub> =-1V, I <sub>C</sub> =-1.5A	12			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-500mA,I <sub>B</sub> =-50mA			-0.3	V
		I <sub>C</sub> =-3A,I <sub>B</sub> =-600mA			-1.7	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =-1.5A,I <sub>B</sub> =-150mA			-1.5	V
		I <sub>C</sub> =-3A,I <sub>B</sub> =-600mA			-2	V
Base-emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> =-1V, I <sub>C</sub> =-500mA			-1.2	V
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V,I <sub>E</sub> =0, f=10MHz			50	pF
Transition frequency	f⊤	V <sub>CE</sub> =-10V,I <sub>C</sub> =-100mA, f=10MHz	50			MHz



