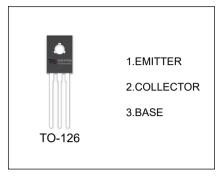


MJE171 TRANSISTOR (PNP)

FEATURES

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



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
MJE171	TO-126	Bulk	200pcs/Bag
MJE171-TU	TO-126	Tube	60pcs/Tube

MAXIMUM RATINGS (T_a =25 $^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-80	٧	
V _{CEO}	Collector-Emitter Voltage	-60	٧	
V _{EBO}	Emitter-Base Voltage	-7	V	
Ic	Collector Current	-3	Α	
Pc	Collector Power Dissipation	1.5	.W	
R _{0JA}	Thermal Resistance From Junction To Ambient	83	°C/W	
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃	



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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	$I_C = -1 \text{mA}, I_E = 0$	-80			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA,I _B =0	-60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-1mA,I _C =0	-7			V
Collector cut-off current	I _{CBO}	V _{CB} =-80V,I _E =0			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-7V,I _C =0			-100	nA
DC current gain	h _{FE(1)}	V _{CE} =-1V, I _C =-0.1A	50		250	
	h _{FE(2)}	V _{CE} =-1V, I _C =-0.5A	30			
	h _{FE(3)}	V _{CE} =-1V, I _C =-1.5A	12			
Collector-emitter saturation voltage	V _{CE(sat)(1)}	I _C =-500mA,I _B =-50mA			-0.3	V
	V _{CE(sat)(2)}	I _C =-1.5A,I _B =-150mA			-0.9	V
	V _{CE(sat)(3)}	I _C =-3A,I _B =-600mA			-1.7	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C =-1.5A,I _B =-150mA			-1.5	V
		I _C =-3A,I _B =-600mA			-2	V
Base-emitter voltage	V _{BE}	V _{CE} =-1V, I _C =-500mA			-1.2	V
Transition frequency	f _T	V _{CE} =-10V,I _C =-0.1A	50			MHz
Collector output capacitance	Cob	V _{CB} =-10V,I _E =0, f=0.1MHz			50	рF



