

■■ APPLICATION: Audio Power Amplifier Applications.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	30	V
Collector-emitter voltage	V _{CEO}	30	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	1	A
Collector Power Dissipation	P _C	900	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 55~150	°C



■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	100		320		V _{CE} = 2V, I _C = 100mA
Collector Cut-off Current	I _{CB0}			0.1	μA	V _{CB} = 30V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	μA	V _{EB} = 5V, I _C =0
Collector-Base Breakdown Voltage	BV _{CB0}	30			V	I _C = 1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	30			V	I _C = 10mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	5			V	I _E = 1mA, I _C =0
Base-Emitter Voltage	V _{BE}		0.9	1.5	V	V _{CE} = 2V, I _C = 800mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5	V	I _C = 800mA, I _B = 80mA
Gain bandwidth product	f _T		150		MHZ	I _C = 100mA, V _{CE} = 2V
Common Base Output Capacitance	C _{ob}		13		PF	V _{CB} = 10V, I _E =0, f= 1MHZ

■■ h_{FE} Classification And Marking

Classification	O	Y
h _{FE}	100~200	160~320