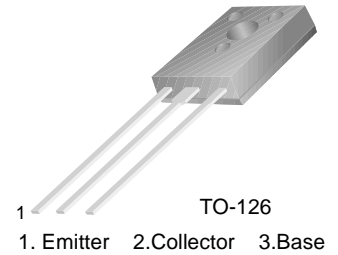


■■ APPLICATION: Audio Frequency Power Amplifier

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	40	V
Collector-emitter voltage	V _{CEO}	30	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	3	A
Power Dissipation	P _C	1	W
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
Common Emitter DC Current Gain	h _{FE}	60		400		V _{CE} = 2V, I _C = 1A
Collector Cut-off Current	I _{CB0}			1	μ A	V _{CB} = 30V, I _E =0
Emitter Cut-off Current	I _{EBO}			1	μ A	V _{EB} = 3V, I _C =0
Collector-Base Breakdown Voltage	BV _{CB0}	40			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}	3			V	I _E = 1mA, I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}		0.3	1.5	V	I _C = 2A, I _B = 0.2A
Base-Emitter Saturation Voltage	V _{BE(sat)}		1.0	2.0	V	I _C = 2A, I _B = 0.2A
Gain bandwidth product	f _T		90		MHz	I _C = 100mA, V _{CE} = 5V
Output Capacitance	C _{ob}		45		PF	V _{CB} = 10V, I _E =0, f= 1MHz

■■ h_{FE} Classification And Marking

Mark				
Classification	R	Q	P	E
h _{FE}	60~120	100~200	160~320	200~400