

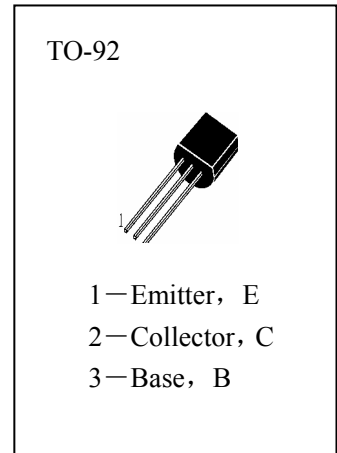


AUDIO FREQUENCY AMPLIFIER

HIGH FREQUENCY OSC

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

- T_{stg}—Storage Temperature..... -55~150°C
- T_j—Junction Temperature.....150°C
- P_C—Collector Dissipation.....400mW
- V_{CB0}—Collector-Base Voltage.....-50V
- V_{CEO}—Collector-Emitter Voltage.....-50V
- V_{EBO}—Emitter-Base Voltage.....-5V
- I_C—Collector Current.....-150mA



ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I _{CBO}	Collector Cut-off Current			-100	nA	V _{CB} =-50V, I _E =0
I _{EBO}	Emitter Cut-off Current			-100	nA	V _{EB} =-5V, I _C =0
H _{FE(1)}	DC Current Gain	70		700		V _{CE} =-6V, I _C =-2mA
H _{FE(2)}		25				V _{CE} =-6V, I _C =-150mA
V _{CE(sat)}	Collector- Emitter Saturation Voltage			-0.3	V	I _C =-100mA, I _B =-10mA
V _{BE(sat)}	Base-Emitter Saturation Voltage			-1.1	V	I _C =-100mA, I _B =-10mA
BV _{CB0}	Collector-Base Breakdown Voltage	-50			V	I _C =-100 μ A, I _E =0
BV _{CEO}	Collector-Emitter Breakdown Voltage	-50			V	I _C =-1mA, I _B =0
BV _{EBO}	Emitter-Base Breakdown Voltage	-5			V	I _E =-10 μ A, I _C =0
f _T	Current Gain-Bandwidth Product	80			MHz	V _{CE} =-10V, I _C =-1mA

h_{FE} Classification

O	Y	GR	BL1	BL2
70—140	120—240	200—400	350—510	480—700