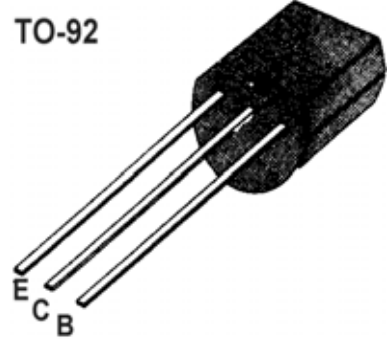


■■ APPLICATION: Audio Frequency Amplifier Application.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CB0</sub>	-20	V
Collector-emitter voltage	V <sub>CEO</sub>	-16	V
Emitter-base voltage	V <sub>EBO</sub>	-6	V
Collector current	I <sub>C</sub>	-2	A
Collector Power Dissipation	P <sub>C</sub>	750	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55~150	°C



■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h <sub>FE</sub>	135		650		V <sub>CE</sub> = -2 V, I <sub>C</sub> = -100 mA
Collector Cut-off Current	I <sub>CB0</sub>			-0.1	μA	V <sub>CB</sub> = -16 V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EBO</sub>			-0.1	μA	V <sub>EB</sub> = -6 V, I <sub>C</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CB0</sub>	-20			V	I <sub>C</sub> = -0.1 mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	-16			V	I <sub>C</sub> = -2 mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	-6			V	I <sub>E</sub> = -0.1 mA, I <sub>C</sub> =0
Base-Emitter Voltage	V <sub>BE</sub>			-0.65	V	V <sub>CE</sub> = -6 V, I <sub>C</sub> = -5 mA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>		-0.31	-0.50	V	I <sub>C</sub> = -1.5 A, I <sub>B</sub> = -75 mA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.3	V	I <sub>C</sub> = -1 A, I <sub>B</sub> = -10 mA
Base-Emitter Voltage	V <sub>BE(sat)</sub>		-1.05	-1.2	V	I <sub>C</sub> = -1.5 mA, I <sub>B</sub> = -75 mA
Gain bandwidth product	f <sub>T</sub>	100	180		MHz	I <sub>C</sub> = -50 mA, V <sub>CE</sub> = -10 V
Common Base Output Capacitance	C <sub>ob</sub>		60		PF	V <sub>CB</sub> = -10 V, I <sub>E</sub> =0, f = 1 MHz

■■ h<sub>FE</sub> Classification

Classification	L	K	U
h <sub>FE</sub>	135~270	200~400	300~650