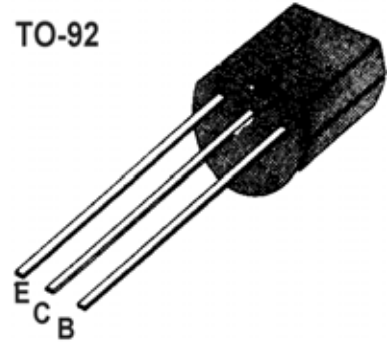


■■ APPLICATION: Low Frequency General Purpose Amplifier Applications.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CBO</sub>	-30	V
Collector-emitter voltage	V <sub>CEO</sub>	-25	V
Emitter-base voltage	V <sub>EBO</sub>	-5	V
Collector current	I <sub>C</sub>	-500	mA
Collector Power Dissipation	P <sub>C</sub>	625	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55~150	°C

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■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h <sub>FE</sub>	85		340		V <sub>CE</sub> = -10V, I <sub>C</sub> = -150mA
Collector Cut-off Current	I <sub>CBO</sub>			-0.1	μA	V <sub>CB</sub> = -20V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EBO</sub>			-0.1	μA	V <sub>EB</sub> = -4V, I <sub>C</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	-30			V	I <sub>C</sub> = -0.1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	-25			V	I <sub>C</sub> = -1mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	-5			V	I <sub>E</sub> = -0.1mA, I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>		-0.35	-0.6	V	I <sub>C</sub> =-300 mA, I <sub>B</sub> = -30mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>		-1.1	-1.5	V	I <sub>C</sub> = -300mA, I <sub>B</sub> = -30mA
Gain bandwidth product	f <sub>r</sub>		200		MHz	I <sub>C</sub> = -50mA, V <sub>CE</sub> = -10V
Common Base Output Capacitance	C <sub>ob</sub>		6	15	PF	V <sub>CB</sub> = -10V, I <sub>E</sub> =0, f= 1MHz

■■ h<sub>FE</sub> Classification

Classification	Q	R	S
h <sub>FE</sub>	85~170	120~240	170~340