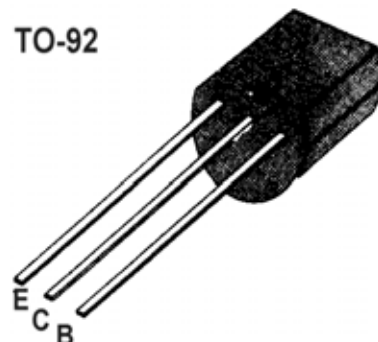


**■■ APPLICATION:** Power Amplifier Application, Power Switching Application.

**■■ 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>	-20	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
Common Emitter DC Current Gain	h <sub>FE</sub>	120		400		V <sub>CE</sub> = -2V, I <sub>c</sub> = -100mA
Collector Cut-off Current	I <sub>CB0</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> = -6V, I <sub>c</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CB0</sub>	-20			V	I <sub>c</sub> = -0.1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	-20			V	I <sub>c</sub> = -10mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	-6			V	I <sub>E</sub> = -0.1mA, I <sub>c</sub> =0
Base-Emitter Voltage	V <sub>BE</sub>			-0.85	V	V <sub>CE</sub> = -2V, I <sub>c</sub> = -100mA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.5	V	I <sub>c</sub> = -2A, I <sub>B</sub> = -100mA
Gain bandwidth product	f <sub>r</sub>		120		MHz	I <sub>c</sub> = -500mA, V <sub>CE</sub> = -2V
Common Base Output Capacitance	C <sub>ob</sub>		40		PF	V <sub>CB</sub> = -10V, I <sub>E</sub> =0, f = 1MHz

**■■ h<sub>FE</sub> Classification**

Classification	O	Y
h <sub>FE</sub>	120~240	200~400