

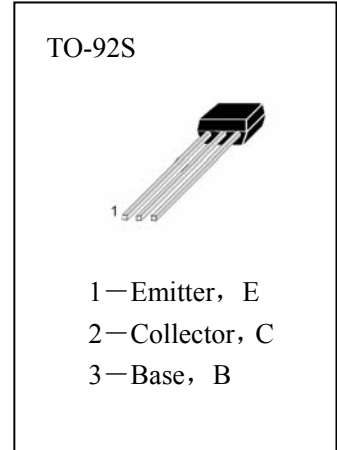


APPLICATIONS

Small power amplifier.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

- T<sub>stg</sub>—Storage Temperature..... -55~150°C
- T<sub>j</sub>—Junction Temperature.....150°C
- P<sub>C</sub>—Collector Dissipation.....200mW
- V<sub>CBO</sub>—Collector-Base Voltage.....50V
- V<sub>CEO</sub>—Collector-Emitter Voltage.....50V
- V<sub>EBO</sub>—Emitter-Base Voltage.....5V
- I<sub>C</sub>—Collector Current.....150mA



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	50			V	I <sub>C</sub> =10 μ A, I <sub>E</sub> =0
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	50			V	I <sub>C</sub> =100 μ A, I <sub>B</sub> =0
I <sub>CBO</sub>	Collector Cut-off Current			0.1	μ A	V <sub>CB</sub> =50V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter Cut-off Current			0.1	μ A	V <sub>EB</sub> =5V, I <sub>C</sub> =0
H <sub>FE</sub>	DC Current Gain	70		700		V <sub>CE</sub> =6V, I <sub>C</sub> =2mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage		0.1	0.25	V	I <sub>C</sub> =100mA, I <sub>B</sub> =10mA
f <sub>T</sub>	Current Gain-Bandwidth Product	80			MHz	V <sub>CE</sub> =6V, I <sub>C</sub> =10mA
C <sub>ob</sub>	Output Capacitance		2.0	3.5	pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz
NF	Noise Figure		1.0	10	dB	V <sub>CE</sub> =6V, I <sub>C</sub> =100 μ A f=1KHz, R <sub>g</sub> =10K Ω

h<sub>FE</sub> Classification

O	Y	GR	BL
70—140	120—240	200—400	350—700