

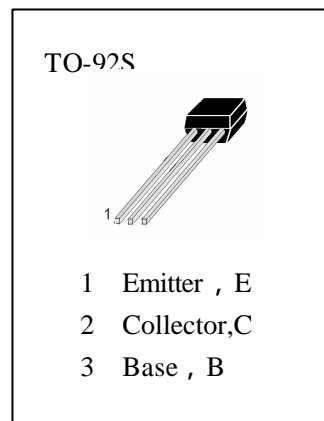


APPLICATIONS

Switching Applications .

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

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



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I_{EBO}	Emitter Cut-off Current			-0.1	μA	$V_{EB}=-5V, I_C=0$
I_{CBO}	Collector Cut-off Current			-0.1	μA	$V_{CB}=-50V, I_E=0$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage		-0.1	-0.3	V	$I_C=-100mA, I_B=-10mA$
h_{FE}	DC Current Gain	70		400		$V_{CE}=-6V, I_C=-2mA$
f_T	Current Gain-Bandwidth Product	80			MHz	$V_{CE}=-10V, I_C=-1mA$
C_{ob}	Output Capacitance		4.0	7.0	pF	$V_{CB}=-10V, I_E=0, f=1MHz$
NF	Noise Figure		1.0	10	dB	$V_{CE}=-6V, I_C=-0.1mA$ $f=1KHz, R_g=10K$

h_{FE} Classification

O	Y	GR
70—140	120—240	200—400

