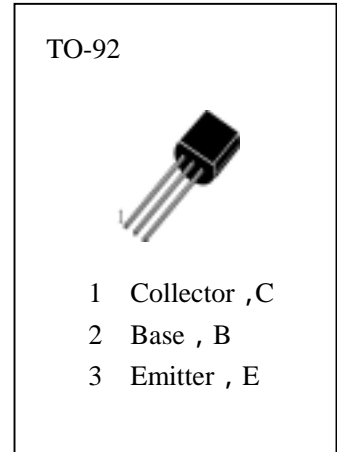




SWITCHING AND AMPLIFIER

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

- T_{stg} —Storage Temperature..... -55~150
- T_j —Junction Temperature.....150
- P_C —Collector Dissipation.....500mW
- V_{CBO} —Collector-Base Voltage.....-80V
- V_{CEO} —Collector-Emitter Voltage.....-65V
- V_{EBO} —Emitter-Base Voltage.....-5V
- I_C —Collector Current.....-100mA



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I_{CBO}	Collector Cut-off Current			-15	nA	$V_{CB}=-30V, I_E=0$
HFE	DC Current Gain	110		800		$V_{CE}=-5V, I_C=-2mA$
$V_{CE(sat1)}$	Collector- Emitter Saturation Voltage		-90	-300	mV	$I_C=-10mA, I_B=-0.5mA$
$V_{CE(sat2)}$			-250	-650	mV	$I_C=-100mA, I_B=-5mA$
$V_{BE(sat1)}$	Base-Emitter Saturation Voltage		-0.7		V	$I_C=-10mA, I_B=-0.5mA$
$V_{BE(sat2)}$			-0.9		V	$I_C=-100mA, I_B=-5mA$
$V_{BE(ON)}$	Base-Emitter On Voltage	-600	-660	-750	mV	$V_{CE}=-5V, I_C=-2mA$
f_T	Current Gain-Bandwidth Product		150		MHz	$V_{CE}=-5V, I_C=-10mA$ $f=100MHz$
NF	Noise Figure		2	10	dB	$V_{CE}=-5V, I_C=-200 \mu A$ $f=1KHz, R_g=2K$

hFE Classification

A	B	C
110—220	200—450	420—800