



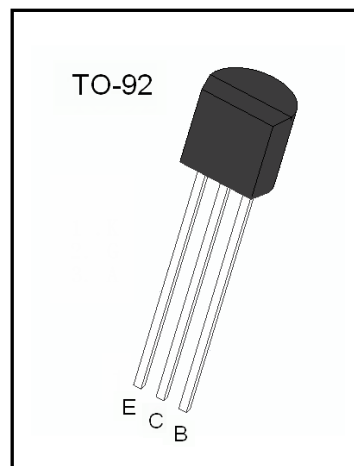
Low Noise Amplifier Application

High Voltage Application

- Features**
- High Voltage: $V_{ce0} = -120V$ (Min)
 - High DC current gain $h_{FE} = 200 \sim 700$.

Absolute Maximum Rating ($T_a = 25^\circ C$)

Parameter			
Collector-Base Voltage	BV	-120	V
Collector-Emitter Voltage	BV	-120	V
-Base Voltage	BV_{EBO}	-5	V
Collector Current	I_C	-100	mA
	P_C	625	mW
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature		-55 ~ 150	$^\circ C$



Electrical Characteristics ($T_a = 25^\circ C$)

Parameter	Symbol	Conditions			
			Min		
Collector-emitter breakdown	BV_{CEO}	$I_C = -1mA, I_B = 0$	-120		V
Collector cut-off current	I_{CBO}	$V = -120V, I_E$		-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$		-100	nA
DC current gain	h_{FE}	$V_{CE} = -6V, I_C = -2mA$	200	700	
Collector-emitter saturation voltage	V	$I_C = -10mA, I_B = -1mA$		-0.3	V
-emitter saturation voltage	V_{BESAT}	$I_C = -10mA, I_B = -1mA$		-1.0	V
	f_T	$V = -6V, I_B = -1mA$		100	

h_{FE} Classification

Classification	GR	BL
h_{FE}	200-400	350-700