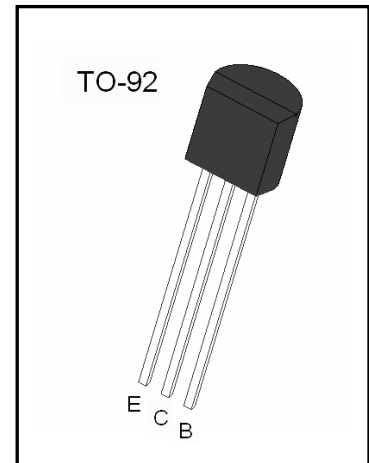


**Low Noise Amplifier Application****High Voltage Application**

- Features**
- High Voltage:  $V_{CE0} = -120V$  (Min)
  - High DC current gain  $h_{FE} = 200 \sim 700$ .

**Absolute Maximum Rating (Ta=25°C)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$BV_{CBO}$	-120	V
Collector-Emitter Voltage	$BV_{CEO}$	-120	V
Emitter-Base Voltage	$BV_{EBO}$	-5	V
Collector Current	$I_C$	-100	mA
Collector Power Dissipation	$P_C$	625	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55~150	°C

**Electrical Characteristics (Ta=25°C)**

Parameter	Symbol	Conditions	Value			Unit
			Min	Typ	Max	
Collector-emitter breakdown voltage	$BV_{CEO}$	$I_C = -1mA, I_B = 0$	-120			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -120V, I_E = 0$			-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	$V_{CESAT}$	$I_C = -10mA, I_B = -1mA$			-0.3	V
base -emitter saturation voltage	$V_{BESAT}$	$I_C = -10mA, I_B = -1mA$			-1.0	V
Transition frequency	$f_T$	$V_{CE} = -6V, I_B = -1mA$		100		MHz

**hFE Classification**

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