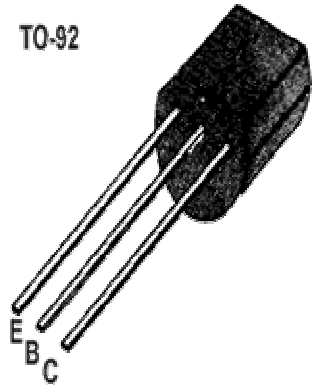


■ ■ APPLICATION: General Purpose Amplifier.

■ ■ MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CB0}	120	V
Collector-emitter voltage	V_{CEO}	80	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_c	100	mA
Collector Power Dissipation	P_c	625	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55~150	$^\circ\text{C}$


■ ■ ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h_{FE}	80				$V_{CE}=5\text{ V}, I_c=10\text{ mA}$
Collector Cut-off Current	I_{CB0}			0.1	μA	$V_{CB}=100\text{ V}, I_E=0$
Emitter Cut-off Current	I_{EBO}			0.1	μA	$V_{EB}=4\text{ V}, I_c=0$
Collector-Base Breakdown Voltage	BV_{CB0}	120			V	$I_c=0.1\text{ mA}, I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	80			V	$I_c=1\text{ mA}, I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	5			V	$I_E=0.1\text{ mA}, I_c=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			0.5	V	$I_c=50\text{ mA}, I_B=5\text{ mA}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			1.0	V	$I_c=50\text{ mA}, I_B=5\text{ mA}$
Gain bandwidth product	f_T	100			MHz	$I_c=10\text{ mA}, V_{CE}=10\text{ V}$
Common Base Output Capacitance	C_{ob}			6	PF	$V_{CB}=10\text{ V}, I_E=0, f=1\text{ MHz}$
Noise Figure	N_F			8	dB	$V_{CE}=5\text{ V}, I_c=250\text{ mA}, f=10\sim 15.7\text{ MHz}, R_g=1\text{ K}\Omega$

■ ■ h_{FE} Classification And Marking

Classification

 h_{FE}
 ≥ 80