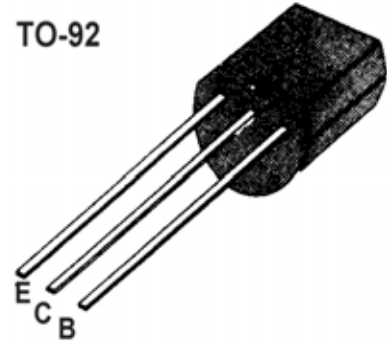


■ ■ APPLICATION: POWER AMPLIFIER APPLICATION, SWITCH APPLICATION

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

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CB0}	-40	V
Collector-emitter voltage	V_{CEO}	-25	V
Emitter-base voltage	V_{EBO}	-6	V
Collector current	I_C	-800	mA
Collector Power Dissipation	P_C	800	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}	85		300		$V_{CE} = -1\text{ V}$, $I_C = -100\text{ mA}$
Collector Cut-off Current	I_{CBO}			-0.1	μA	$V_{CB} = -35\text{ V}$, $I_E = 0$
Emitter Cut-off Current	I_{EBO}			-0.1	μA	$V_{EB} = -6\text{ V}$, $I_C = 0$
Collector-Base Breakdown Voltage	BV_{CB0}	-40			V	$I_C = -0.1\text{ mA}$, $I_E = 0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-25			V	$I_C = -2\text{ mA}$, $I_B = 0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-6			V	$I_B = -0.1\text{ mA}$, $I_C = 0$
Base-Emitter Voltage	V_{BE}			-1	V	$V_{CE} = -1\text{ V}$, $I_C = -10\text{ mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.5	V	$I_C = -500\text{ mA}$, $I_B = -50\text{ mA}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-1.2	V	$I_C = -500\text{ mA}$, $I_B = -50\text{ mA}$
Gain bandwidth product	f_T	100			MHz	$I_C = -50\text{ mA}$, $V_{CE} = -10\text{ V}$
Common Base Output Capacitance	C_{ob}			20	PF	$V_{CB} = -10\text{ V}$, $I_E = 0$, $f = 1\text{ MHz}$

■ ■ h_{FE} Classification

Classification	B	C	D
h_{FE}	85~160	120~200	160~300