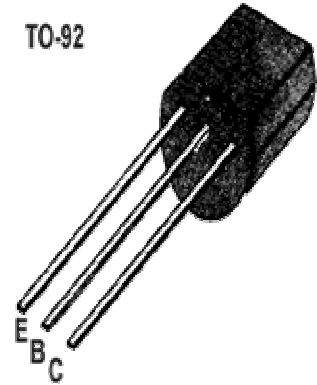


■■APPLICATION: POWER AMPLIFIER APPLICATION, SWITCH APPLICATION.

■■MAXIMUM RATINGS (T_a=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CBO}	35	V
Collector-emitter voltage	V _{CEO}	30	V
Emitter-base voltage	V _{EBO}	4	V
Collector current	I _c	30	mA
Collector Power Dissipation	P _c	250	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 55~150	°C



■■ELECTRICAL CHARACTERISTICS (T_a=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	40		240		V _{CE} = 12V, I _c = 2mA
Collector Cut-off Current	I _{CBO}			0.1	μA	V _{CB} = 30V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	μA	V _{EB} = 4V, I _c =0
Collector-Base Breakdown Voltage	BV _{CBO}	35			V	I _c = 0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	30			V	I _c = 5mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	4			V	I _E = 0.1mA, I _c =0
Base-Emitter Voltage	V _{BE}	0.65		0.75	V	V _{CE} = 6V, I _c = 1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}		0.1	0.4	V	I _c = 10mA, I _B = 1mA
Gain bandwidth product	f _T	100	250		MHZ	I _c = 1mA, V _{CE} = 10V
Common Base Output Capacitance	C _{ob}		2	3.2	PF	V _{CB} = 10V, I _E =0, f = 1MHz

■■h_{FE} Classification

Classification	R	O	Y
h _{FE}	40~80	70~140	120~240