

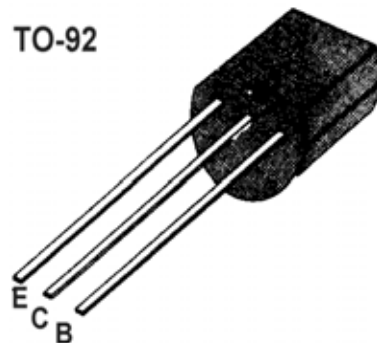
■■ APPLICATION: POWER AMPLIFIER APPLICATION.

SWITCHING APPLICATION.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	35	V
Collector-emitter voltage	V _{CEO}	30	V
Emitter-base voltage	V _{EBO}	4	V
Collector current	I _C	50	mA
Collector Power Dissipation	P _C	300	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 55~150	°C

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■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	40		240		V _{CE} = 12 V, I _C = 2 mA
Collector Cut-off Current	I _{CB0}			0.1	μA	V _{CB} = 35V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	μA	V _{EB} = 4 V, I _C =0
Collector-Base Breakdown Voltage	BV _{CB0}	35			V	I _C = 0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	30			V	I _C = 1 mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	4			V	I _E = 0.1mA, I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.4	V	I _C = 10 mA, I _B = 1 mA
Base-Emitter Voltage	V _{BE}			1.0	V	I _C = 10 mA, I _B = 1 mA
Gain bandwidth product	f _T	100	300		MHz	I _C = 1 mA, V _{CE} = 10 V
Common Base Output Capacitance	C _{ob}		2.0	3.2	PF	V _{CB} = 10 V, I _E =0, f = 1 MHz
Power Gain	G _p	27	29	33	dB	V _{CB} = 6 V, I _E =-1mA, f = 10.7 MHz

■■ h_{FE} Classification

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