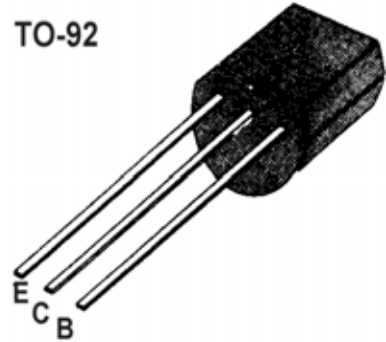


■■ APPLICATION: POWER AMPLIFIER APPLICATION,

SWITCHING APPLICATION.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CBO}	30	V
Collector-emitter voltage	V _{CEO}	25	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	125	°C
Storage Temperature Range	T _{stg}	- 55~150	°C



■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	20		200		V _{CE} = 12.5 V, I _C = 12.5 mA
Collector Cut-off Current	I _{CB0}			0.1	μA	V _{CB} = 30V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	μA	V _{EB} = 5 V, I _C =0
Collector-Base Breakdown Voltage	BV _{CBO}	30			V	I _C = 0.02mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	25			V	I _C = 1 mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	4			V	I _E = 0.02mA, I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.2	V	I _C = 15 mA, I _B = 1.5 mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.5	V	I _C = 15 mA, I _B = 1.5 mA
Gain bandwidth product	f _T	300			MHz	I _C = 12.5 mA, V _{CE} = 12.5 V
Common Base Output Capacitance	C _{ob}	0.8		2	PF	V _{CB} = 10 V, I _E =0, f = 0.1 MHz
Power Gain	G _p	28			dB	V _{CB} = 12.5V, I _E = 12.5mA, f = 45 MHz

■■ h_{FE} Classification

Classification

h_{FE}

20~200