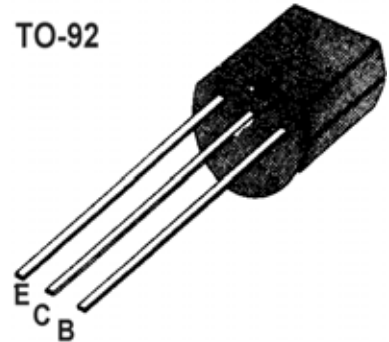


■■ APPLICATION: Low frequency amplifier Medium speed switching

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CBO}	30	V
Collector-emitter voltage	V _{CEO}	30	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	100	mA
Collector Power Dissipation	P _C	200	mW
Junction Temperature	T _J	150	°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}	100		800		V _{CE} = 12V, I _C = 2mA
Collector Cut-off Current	I _{CBO}			0.1	μA	V _{CB} = 20V, I _E =0
Emitter Cut-off Current	I _{EBO}			1	μA	V _{EB} = 4V, I _C =0
Collector-Base Breakdown Voltage	BV _{CBO}	30			V	I _C = 0.02mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	30			V	I _C = 1mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	5			V	I _E = 0.02mA, I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.2	V	I _C = 10mA, I _B = 1mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.0	V	I _C = 10mA, I _B = 1mA
Gain bandwidth product	f _T	150	230		MHz	I _C = 2mA, V _{CE} =12 V
Common Base Output Capacitance	C _{ob}			3.5	PF	V _{CB} = 10V, I _E =0, f = 1MHz

■■ h_{FE} Classification

Classification	B	C	D	E
h _{FE}	100~200	160~320	250~500	400~800