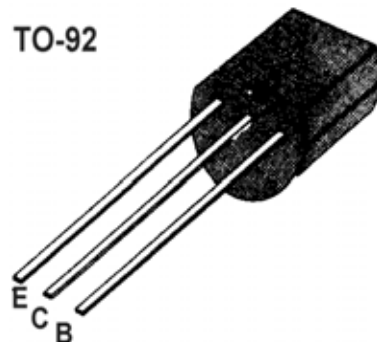


■■ APPLICATION: VHF amplifier, Mixer, Local oscillator.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CBO}	30	V
Collector-emitter voltage	V _{CEO}	19	V
Emitter-base voltage	V _{EBO}	2	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

TO-92



■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	40				V _{CE} = 10V, I _C = 10mA
Collector Cut-off Current	I _{CBO}			0.5	μA	V _{CB} = 10V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.5	μA	V _{EB} = 2V, I _C =0
Collector-Base Breakdown Voltage	BV _{CBO}	30			V	I _C = 0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	19			V	I _C = 3mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	2			V	I _E = 0.1mA, I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}		0.2	1.0	V	I _C = 20mA, I _B = 4mA
Gain bandwidth product	f _r	600	1000		MHz	I _C = 10mA, V _{CE} = 10V
Common Base Output Capacitance	C _{ob}		1.0	2.0	PF	V _{CB} = 10V, I _E =0, f = 1MHz
Power Gain	G _P		33		dB	V _{CE} = 10V, I _C = 5mA, f =45MHz

■■ h_{FE} Classification

Classification

h_{FE} ≥40