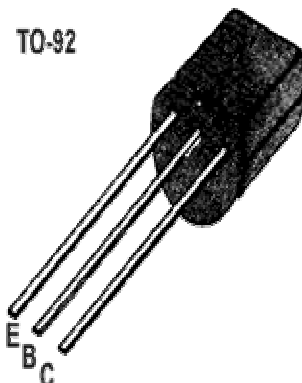


■■ APPLICATION: AM/FM Amplifier, Local Oscillator of FM/VHF Tuner

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CBO</sub>	30	V
Collector-emitter voltage	V <sub>CEO</sub>	15	V
Emitter-base voltage	V <sub>EBO</sub>	5	V
Collector current	I <sub>C</sub>	50	mA
Collector Power Dissipation	P <sub>C</sub>	400	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55~150	°C



■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h <sub>FE</sub>	28		198		V <sub>CE</sub> = 5 V, I <sub>C</sub> = 1 mA
Collector Cut-off Current	I <sub>CBO</sub>			0.05	μA	V <sub>CB</sub> = 12 V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EBO</sub>			0.05	μA	V <sub>EB</sub> = 3 V, I <sub>C</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	30			V	I <sub>C</sub> = 0.1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	15			V	I <sub>C</sub> = 1 mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	5			V	I <sub>E</sub> = 0.1 mA, I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			0.5	V	I <sub>C</sub> = 10 mA, I <sub>B</sub> = 1mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			1.0	V	I <sub>C</sub> = 10 mA, I <sub>B</sub> = 1 mA
Gain bandwidth product	f <sub>r</sub>	700	1100		MHz	I <sub>C</sub> = 5 mA, V <sub>CE</sub> = 5 V
Common Base Output Capacitance	C <sub>ob</sub>		1.3	1.7	PF	V <sub>CB</sub> = 10 V, I <sub>E</sub> =0, f = 1MHz

■■ h<sub>FE</sub> Classification

Classification	E	F	G	H	I	
h <sub>FE</sub>	28~45	39~60	54~80	72~108	97~146	132~198