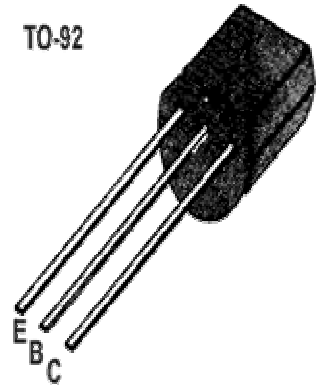


■■ APPLICATION: FM/AM RF AMP, MIX, CONV, OSC, IF.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CB0</sub>	50	V
Collector-emitter voltage	V <sub>CEO</sub>	30	V
Emitter-base voltage	V <sub>EB0</sub>	5	V
Collector current	I <sub>c</sub>	50	mA
Collector Power Dissipation	P <sub>c</sub>	250	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>	40		240		V <sub>CE</sub> = 6 V, I <sub>c</sub> = 1 mA
Collector Cut-off Current	I <sub>CB0</sub>			0.1	μA	V <sub>CB</sub> = 50V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EB0</sub>			0.1	μA	V <sub>EB</sub> = 5 V, I <sub>c</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CB0</sub>	50			V	I <sub>c</sub> = 10μA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	30			V	I <sub>c</sub> = 5 mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EB0</sub>	5			V	I <sub>E</sub> = 10μA, I <sub>c</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>		0.08	0.3	V	I <sub>c</sub> = 10 mA, I <sub>B</sub> = 1 mA
Base-Emitter Voltage	V <sub>BE</sub>		0.67	0.75	V	V <sub>CE</sub> = 6 V, I <sub>c</sub> = 1 mA
Gain bandwidth product	f <sub>r</sub>	150	300		MHz	I <sub>c</sub> = 1 mA, V <sub>CE</sub> = 6 V
Common Base Output Capacitance	C <sub>ob</sub>		2.0	2.5	PF	V <sub>CB</sub> = 6 V, I <sub>E</sub> =0, f = 1 MHz

■■ h<sub>FE</sub> Classification

Classification	R	O	Y
h <sub>FE</sub>	40~80	70~140	120~240