



**APPLICATIONS**

Small Signal Amplifier ; High Frequency oscillator ; Switching Applications.  
(complement To H3906)

**ABSOLUTE MAXIMUM RATINGS ( T<sub>a</sub>=25 )**

T<sub>stg</sub>——Storage Temperature..... -55~150

T<sub>j</sub>——Junction Temperature.....150

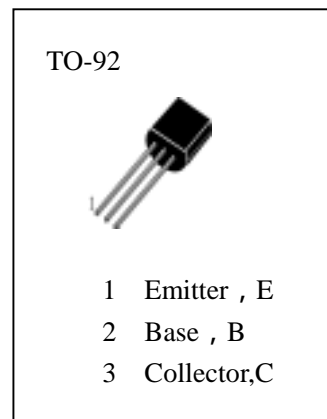
P<sub>C</sub>——Collector Dissipation.....625mW

V<sub>CBO</sub>——Collector-Base Voltage.....60V

V<sub>CEO</sub>——Collector-Emitter Voltage.....40V

V<sub>EBO</sub>——Emitter-Base Voltage.....5V

I<sub>C</sub>——Collector Current.....200mA



**ELECTRICAL CHARACTERISTICS ( T<sub>a</sub>=25 )**

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BVCBO	Collector-Base Breakdown Voltage	60			V	I <sub>C</sub> =100 μ A , I <sub>E</sub> =0
BVCEO	Collector-Emitter Breakdown Voltage	40			V	I <sub>C</sub> =10mA , I <sub>B</sub> =0
BVEBO	Emitter- Base Breakdown Voltage	5			V	I <sub>E</sub> =10 μ A , I <sub>C</sub> =0
ICBO	Collector Cut-off Current			0.1	μ A	V <sub>CB</sub> =60V, I <sub>E</sub> =0
IEBO	Emitter Cut-off Current			0.1	μ A	V <sub>EB</sub> =5V, I <sub>C</sub> =0
hFE	DC Current Gain	70		350		V <sub>CE</sub> =1V, I <sub>C</sub> =10mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage			0.2	V	I <sub>C</sub> =10mA, I <sub>B</sub> =1mA
V <sub>BE(sat)</sub>	Base- Emitter Saturation Voltage			0.85	V	I <sub>C</sub> =10mA , I <sub>B</sub> =1mA
f <sub>T</sub>	Current Gain-Bandwidth Product	300			MHz	V <sub>CE</sub> =20V, I <sub>C</sub> =10mA f=100MHz

**h<sub>FE</sub> Classification**

A	B
70—240	220—350