

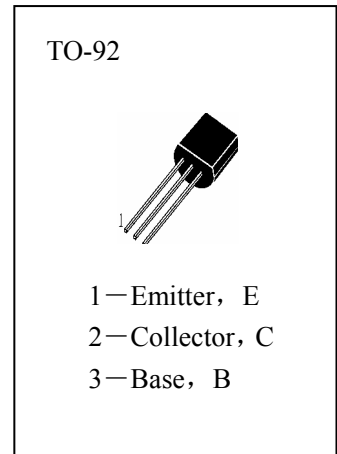


■ APPLICATIONS

TV UHF Oscillator Applications.  
TV VHF Mixer Applications.

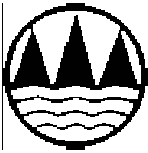
■ ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

- T<sub>stg</sub>—Storage Temperature..... -55~150°C
- T<sub>j</sub>—Junction Temperature.....150°C
- P<sub>C</sub>—Collector Dissipation.....250mW
- V<sub>CBO</sub>—Collector-Base Voltage.....30V
- V<sub>CEO</sub>—Collector-Emitter Voltage.....15V
- V<sub>EBO</sub>—Emitter-Base Voltage.....3V
- I<sub>C</sub>—Collector Current.....50mA
- I<sub>E</sub> —Emitter Current.....-50mA



■ ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	30			V	I <sub>C</sub> =100 μ A, I <sub>E</sub> =0
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	15			V	I <sub>C</sub> =1mA, I <sub>B</sub> =0
H <sub>FE</sub>	DC Current Gain	20				V <sub>CE</sub> =3V, I <sub>C</sub> =8mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage			0.5	V	I <sub>C</sub> =10mA, I <sub>B</sub> =1mA
I <sub>CBO</sub>	Collector Cut-off Current			0.1	μ A	V <sub>CB</sub> =15V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter Cut-off Current			1.0	μ A	V <sub>EB</sub> =3V, I <sub>C</sub> =0
f <sub>T</sub>	Current Gain-Bandwidth Product	650			MHz	V <sub>CE</sub> =10V, I <sub>C</sub> =8mA
C <sub>ob</sub>	Output Capacitance		1.2	1.5	pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz
C <sub>c</sub> ,r <sub>bb</sub> '	Collector-Base Time Constant			12	ps	V <sub>CB</sub> =10V, I <sub>C</sub> =8mA, f=30MHz



STATIC CHARACTERISTICS

