



■ GENERAL PURPOSE AMPLIFIER AND LOW NOISE

AMPLIFIER 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.....625mW

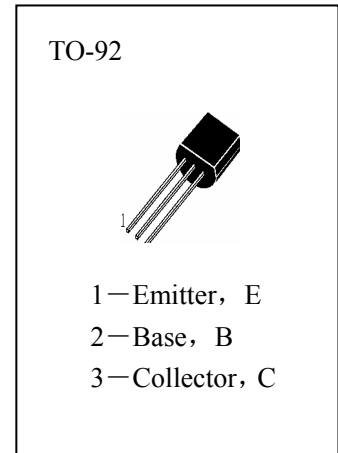
V<sub>CB0</sub>—Collector-Base Voltage.....60V

V<sub>CEO</sub>—Collector-Emitter Voltage.....60V

V<sub>EBO</sub>—Emitter-Base Voltage.....7V

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

I<sub>B</sub>—Base Current.....200mA



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

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	60			V	I <sub>C</sub> =1mA, I <sub>B</sub> =0
I <sub>CBO</sub>	Collector Cut-off Current			50	nA	V <sub>CB</sub> =40V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter Cut-off Current			100	nA	V <sub>EB</sub> =6V, I <sub>C</sub> =0
H <sub>FE</sub>	DC Current Gain	70		700		V <sub>CE</sub> =5V, I <sub>C</sub> =2mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage			0.22	V	I <sub>C</sub> =50mA, I <sub>B</sub> =10mA
V <sub>BE</sub>	Base-Emitter Voltage			1.0	V	V <sub>CE</sub> =5V, I <sub>C</sub> =2mA
f <sub>T</sub>	Current Gain-Bandwidth Product	150	400		MHz	V <sub>CE</sub> =5V, I <sub>C</sub> =10mA
C <sub>ob</sub>	Output Capacitance		3.5		pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz