

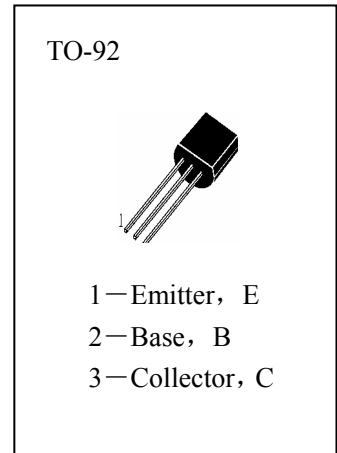


APPLICATIONS

Low frequency power amplifier.

ABSOLUTE MAXIMUM RATINGS (Ta=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.....400mW
- V<sub>CBO</sub>—Collector-Base Voltage.....30V
- V<sub>CEO</sub>—Collector-Emitter Voltage.....25V
- V<sub>EBO</sub>—Emitter-Base Voltage.....5V
- I<sub>C</sub>—Collector Current.....300mA



ELECTRICAL CHARACTERISTICS (Ta=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	25			V	I <sub>C</sub> =10mA, I <sub>B</sub> =0
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	5			V	I <sub>E</sub> =10 μ A, I <sub>C</sub> =0
h <sub>FE</sub>	DC Current Gain	70		400		V <sub>CE</sub> =1V, I <sub>C</sub> =50mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage		0.14	0.4	V	I <sub>C</sub> =300mA, I <sub>B</sub> =30mA
I <sub>CBO</sub>	Collector Cut-off Current			100	nA	V <sub>CB</sub> =25V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter Cut-off Current			100	nA	V <sub>EB</sub> =3V, I <sub>C</sub> =0

h<sub>FE</sub> Classification

O	Y	G
70—140	120—240	200—400

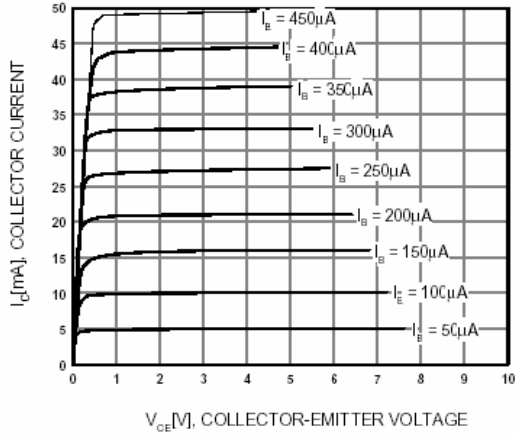


Figure 1. Static Characteristic

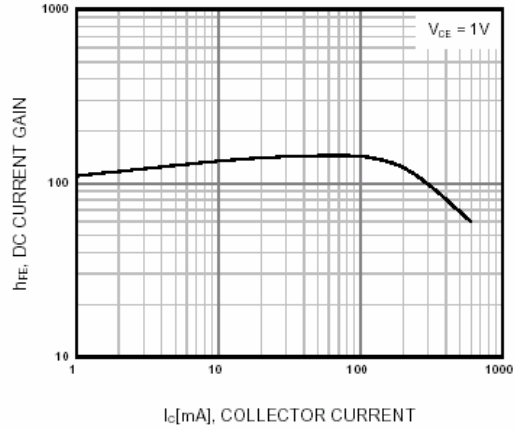


Figure 2. DC current Gain

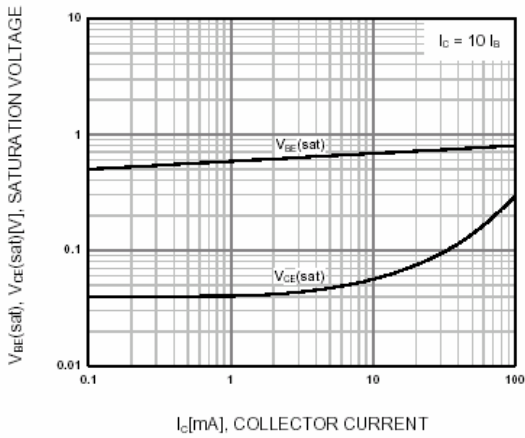


Figure 3. Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage

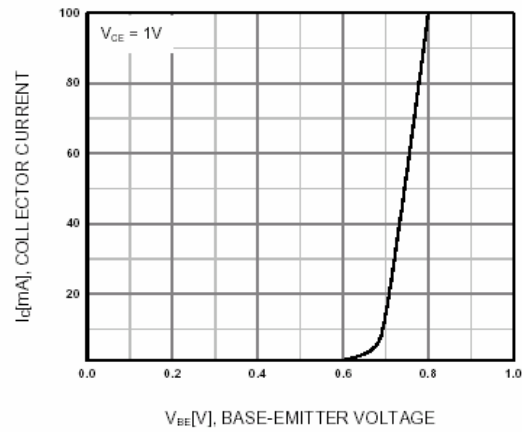


Figure 4. Base-Emitter On Voltage

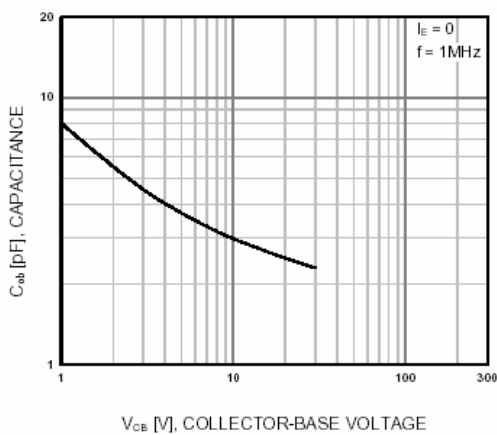


Figure 5. Collector Output Capacitance

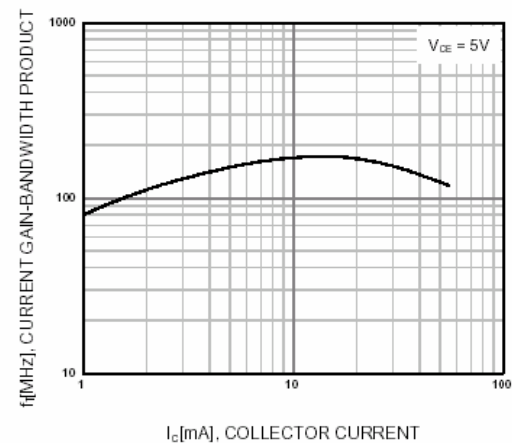


Figure 6. Current Gain Bandwidth Product