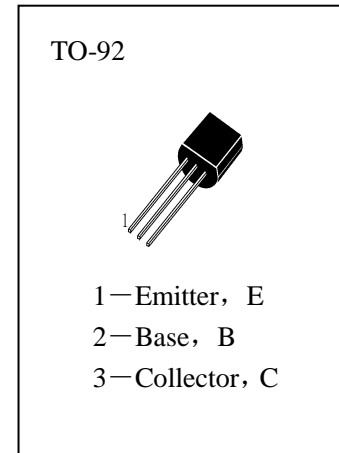


### ■ APPLICATIONS

The H945 is designed for driver stage of AF amplifier  
And low speed switching.

### ■ 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>CB0</sub>	Collector-Base Voltage	60V
V <sub>CEO</sub>	Collector-Emitter Voltage	50V
V <sub>EBO</sub>	Emitter-Base Voltage	5V
I <sub>C</sub>	Collector Current	150mA



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

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CB0</sub>	Collector-Base Breakdown Voltage	60			V	I <sub>C</sub> =100 μA, I <sub>E</sub> =0
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	50			V	I <sub>C</sub> =100 μA, I <sub>B</sub> =0
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	5			V	I <sub>E</sub> =100 μA, I <sub>C</sub> =0
H <sub>FE</sub>	DC Current Gain	90		600		V <sub>CE</sub> =6V, I <sub>C</sub> =1mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage			0.3	V	I <sub>C</sub> =100mA, I <sub>B</sub> =10mA
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage			1.0	V	I <sub>C</sub> =100mA, I <sub>B</sub> =10mA
I <sub>CBO</sub>	Collector Cut-off Current			100	nA	V <sub>CB</sub> =60V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter Cut-off Current			100	nA	V <sub>EB</sub> =5V, I <sub>C</sub> =0
f <sub>T</sub>	Current Gain-Bandwidth Product		250		MHz	V <sub>CE</sub> =6V, I <sub>C</sub> =10mA
C <sub>ob</sub>	Output Capacitance		3.0		pF	V <sub>CB</sub> =6V, I <sub>E</sub> =0, f=1MHz
NF	Noise Figure		4.0		dB	V <sub>CE</sub> =6V, I <sub>C</sub> =0.5mA, f=1KHz, R <sub>S</sub> =500 Ω

### ■ h<sub>FE</sub> Classification

R	Q	P	K
90—180	135—270	200—400	300—600

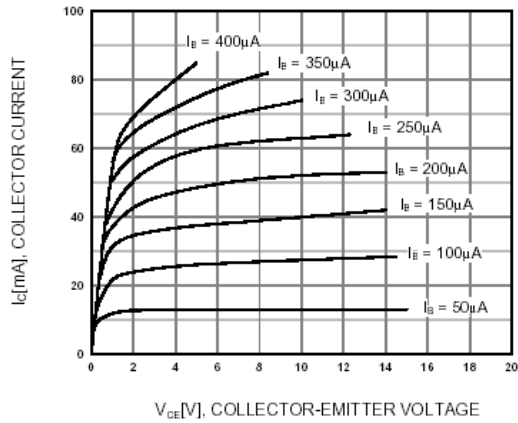


Figure 1. Static Characteristic

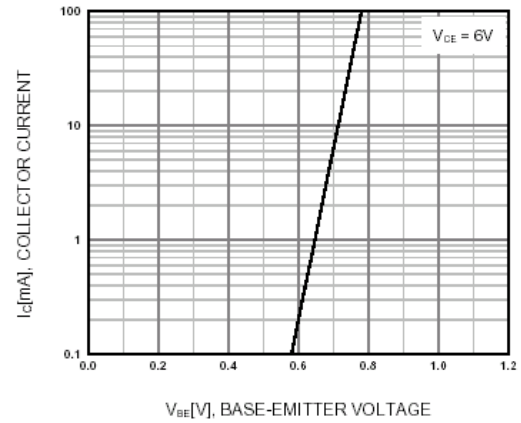


Figure 2. Transfer Characteristic

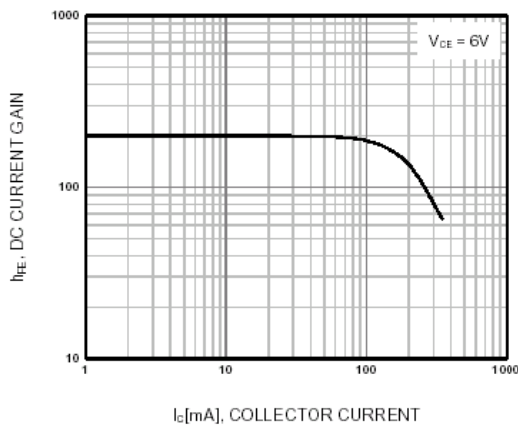


Figure 3. DC current Gain

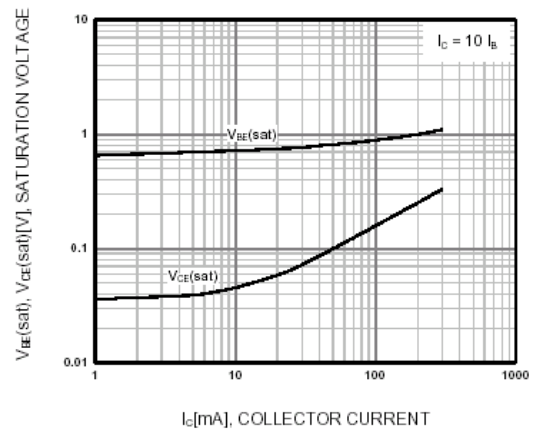


Figure 4. Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage

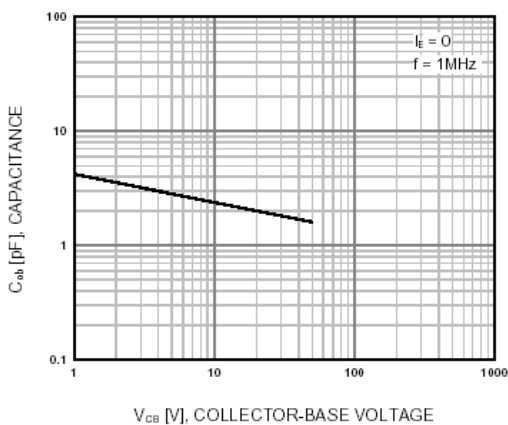


Figure 5. Output Capacitance

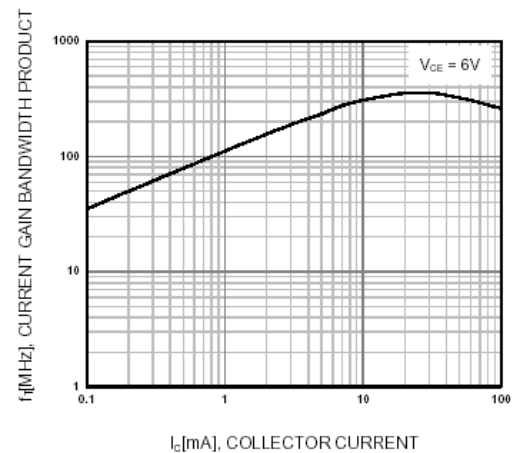


Figure 6. Current Gain Bandwidth Product