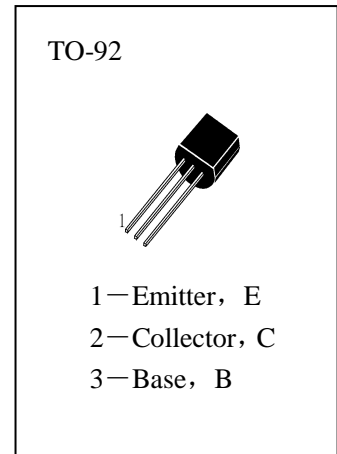


■ AUDIO FREQUENCY AMPLIFIER

HIGH FREQUENCY OSC

■ ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

T _{stg}	Storage Temperature	-55~150°C
T _j	Junction Temperature	150°C
P _C	Collector Dissipation	400mW
V _{CB0}	Collector-Base Voltage	60V
V _{CEO}	Collector-Emitter Voltage	50V
V _{EBO}	Emitter-Base Voltage	5V
I _C	Collector Current	150mA



■ ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I _{CBO}	Collector Cut-off Current			100	nA	V _{CB} =60V, I _E =0
I _{EBO}	Emitter Cut-off Current			100	nA	V _{EB} =5V, I _C =0
HFE(1)	DC Current Gain	70		700		V _{CE} =6V, I _C =2mA
HFE(2)		25				V _{CE} =6V, I _C =150mA
V _{CE(sat)}	Collector- Emitter Saturation Voltage			250	mV	I _C =100mA, I _B =10mA
V _{BE(sat)}	Base-Emitter Saturation Voltage			1.0	V	I _C =100mA, I _B =10mA
BV _{CB0}	Collector-Base Breakdown Voltage	60			V	I _C =100 μ A, I _E =0
BV _{CEO}	Collector-Emitter Breakdown Voltage	50			V	I _C =1mA, I _B =0
BV _{EBO}	Emitter-Base Breakdown Voltage	5			V	I _E =100 μ A, I _C =0
f _T	Current Gain-Bandwidth Product	80			MHz	V _{CE} =10V, I _C =1mA

■ h_{FE} Classification

O	Y	GR	BL
70—140	120—240	200—400	350—700

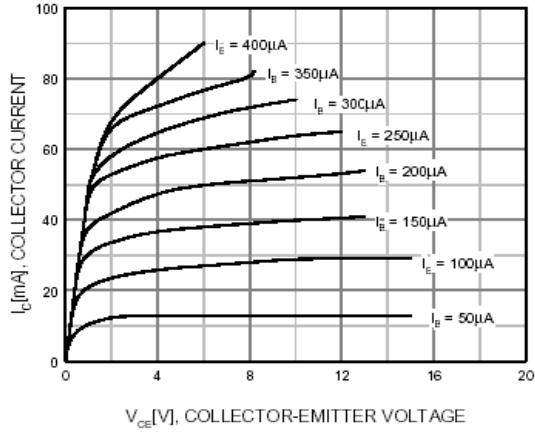


Figure 1. Static Characteristic

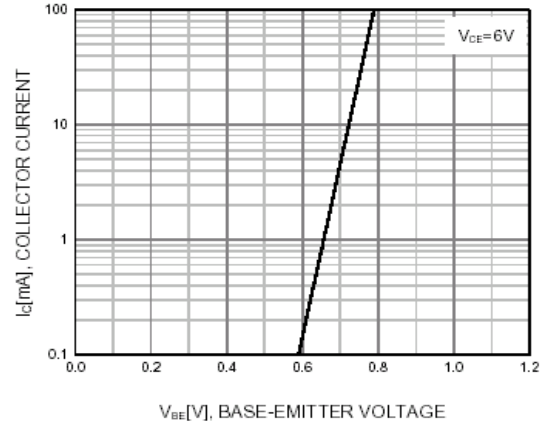


Figure 2. Transfer Characteristic

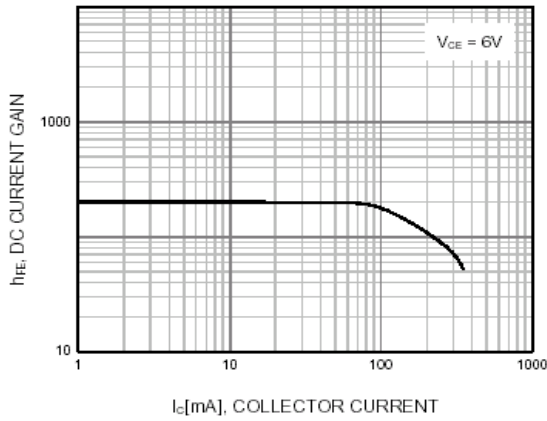


Figure 3. DC current Gain

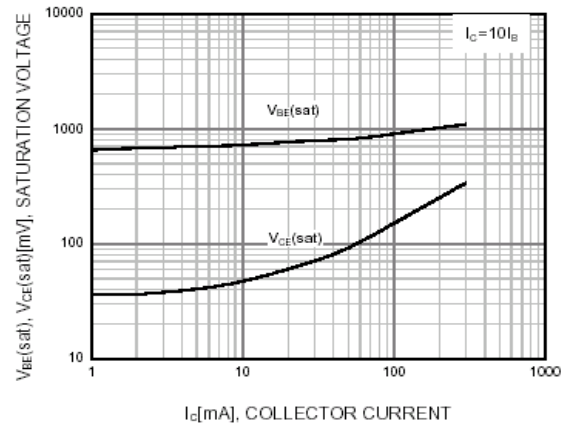


Figure 4. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

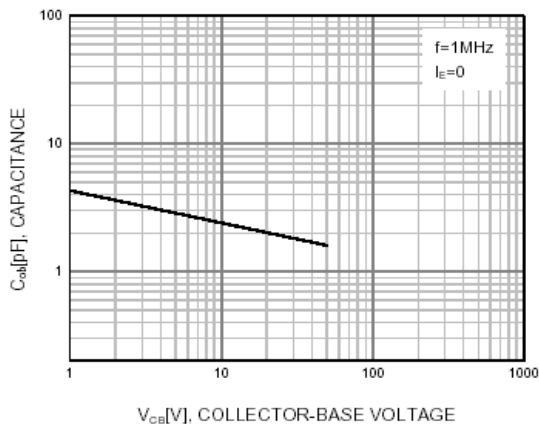


Figure 5. Output Capacitance

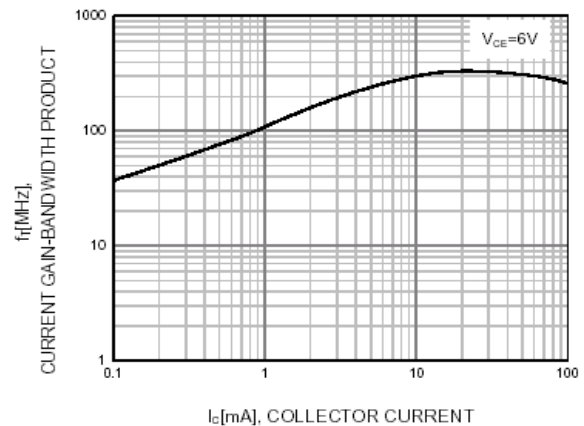


Figure 6. Current Gain Bandwidth Product