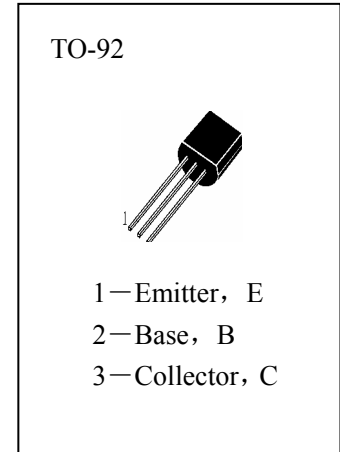




■ PRE-AMPLIFIER, LOW LEVEL & LOW NOISE

■ ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

- T_{stg}—Storage Temperature..... -55~150°C
- T_j—Junction Temperature..... 150°C
- P_C—Collector Dissipation.....450mW
- V_{CBO}—Collector-Base Voltage.....50V
- V_{CEO}—Collector-Emitter Voltage.....45V
- V_{EBO}—Emitter-Base Voltage.....5V
- I_C—Collector Current.....100mA

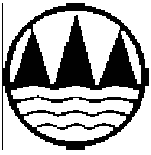


■ ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
ICBO	Collector Cut-off Current			0.05	μ A	V _{CB} =30V, I _E =0
IEBO	Emitter Cut-off Current			0.05	μ A	V _{EB} =5V, I _C =0
HFE(1)	DC Current Gain	60		800		V _{CE} =5V, I _C =1mA
V _{CE(sat)}	Collector- Emitter Saturation Voltage			0.3	V	I _C =100mA, I _B =5mA
V _{BE(sat)}	Base-Emitter Saturation Voltage			1.0	V	I _C =100mA, I _B =5mA
BV _{CBO}	Collector-Base Breakdown Voltage	50			V	I _C =100 μ A, I _E =0
BV _{CEO}	Collector-Emitter Breakdown Voltage	45			V	I _C =1mA, I _B =0
BV _{EBO}	Emitter-Base Breakdown Voltage	5			V	I _E =100 μ A, I _C =0
Cob	Output Capacitance		2.2	3.5	pF	V _{CB} =10V, I _E =0, f=1MHz
f _T	Current Gain-Bandwidth Product	150	270		MHz	V _{CE} =5V, I _C =10mA

■ h_{FE} Classification

A	B	C	D
60—150	100—300	200—600	400—800



Typical Characteristics

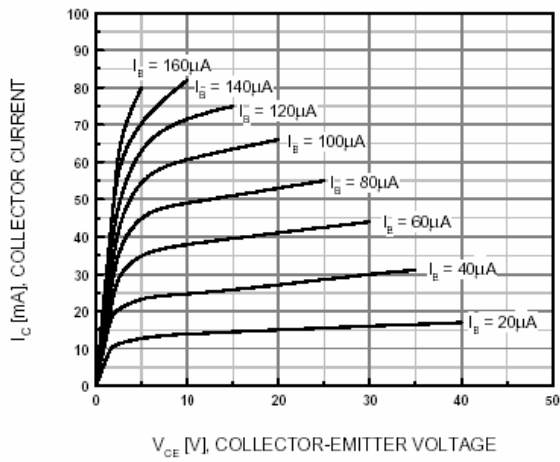


Figure 1. Static Characteristic

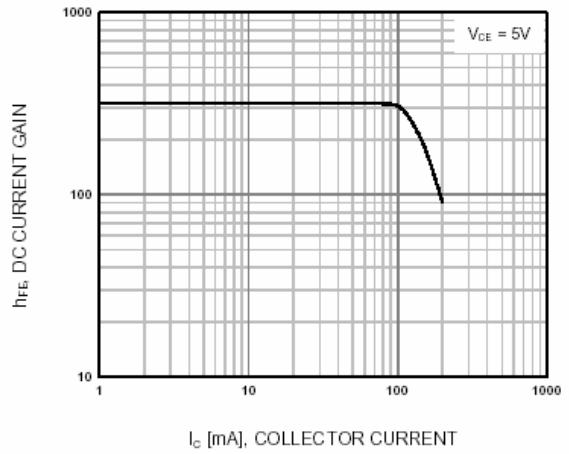


Figure 2. DC current Gain

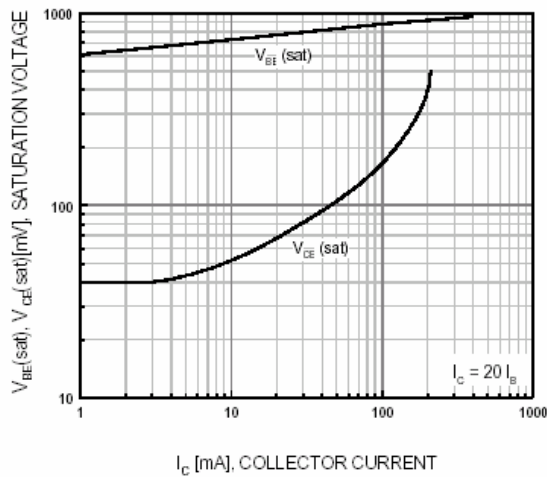


Figure 3. Base-Emitter Saturation Voltage
Collector-Emmitter Saturation Voltage

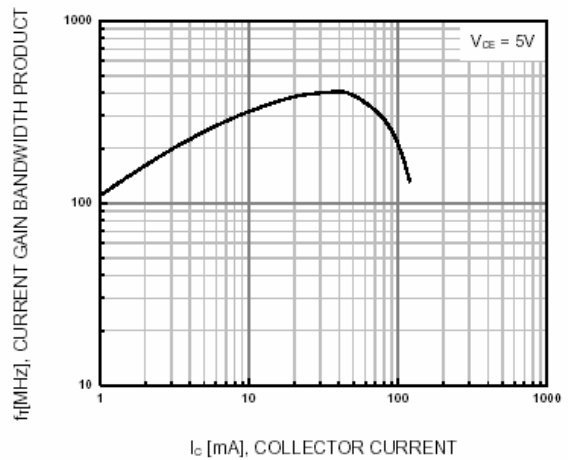


Figure 4. Current Gain Bandwidth Product