

RoHS Compliant Product
A suffix of "-C" specifies halogen and lead free

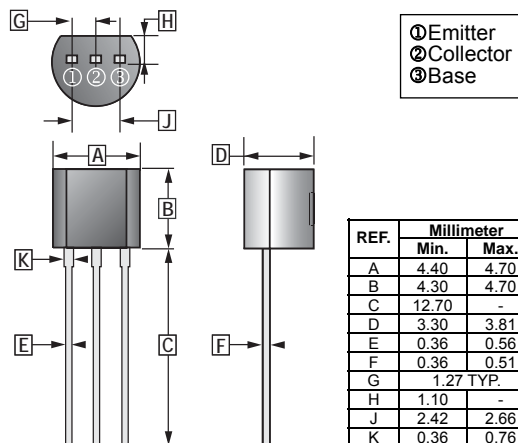
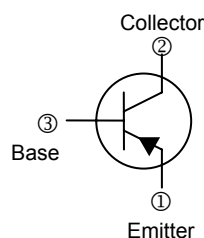
FEATURES

Power dissipation

PACKAGE INFORMATION

Weight: 0.2100g (Approximately)

TO-92



ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V _{CBO}	-60	V
Collector to Emitter Voltage	V _{CEO}	-50	V
Emitter to Base Voltage	V _{EBO}	-5	V
Collector Current -Continuous	I _C	-100	mA
Total Power Dissipation	P _C	250	mW
Junction, Storage Temperature	T _J , T _{STG}	+150, -55 ~ +150	°C

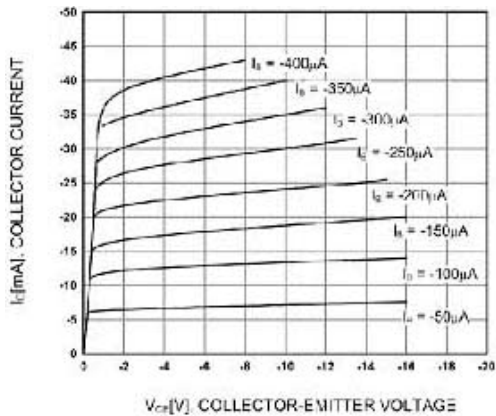
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CBO}	-60	-	-	V	I _C =-50μA, I _E =0
BV _{CEO}	-50	-	-	V	I _C =-1mA, I _B =0
BV _{EBO}	-5	-	-	V	I _E =-50μA, I _C =0
I _{CBO}	-	-	-100	nA	V _{CB} =-60V, I _E =0
I _{EBO}	-	-	-100	nA	V _{EB} =-5V, I _C =0
V _{CE(sat)}	-	-0.18	-0.30	V	I _C =-100mA, I _B =-10mA
V _{BE}	-0.58	-0.62	-0.68	V	V _{CE} =-6V, I _C =-1.0mA
h _{FE}	90	200	600		V _{CE} =-6V, I _C =-1mA
f _T	100	-	-	MHz	V _{CE} =-6V, I _C =-10mA
C _{ob}	-	-	6	pF	V _{CB} =-10V, I _E =0, f=1 MHz
NF (noise figures)	-	-	20	dB	V _{CE} =-6V, I _C =-0.3mA, R _g =10kΩ, f=100HZ

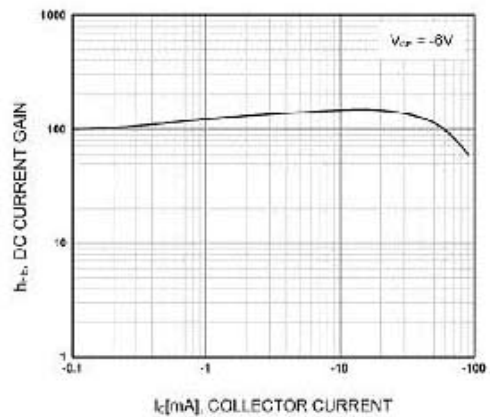
CLASSIFICATION OF h_{FE}

Rank	R	Q	P	K
Range	90 - 180	135 - 270	200 - 400	300 - 600

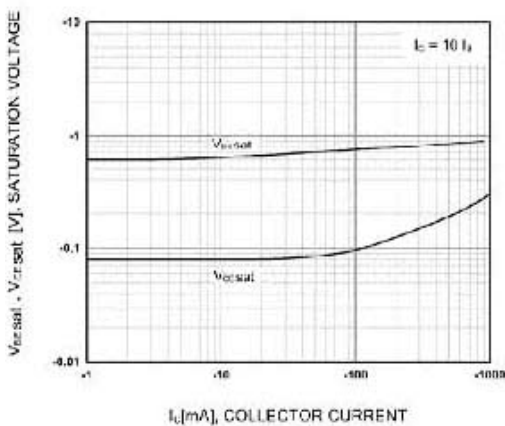
CHARACTERISTIC CURVES



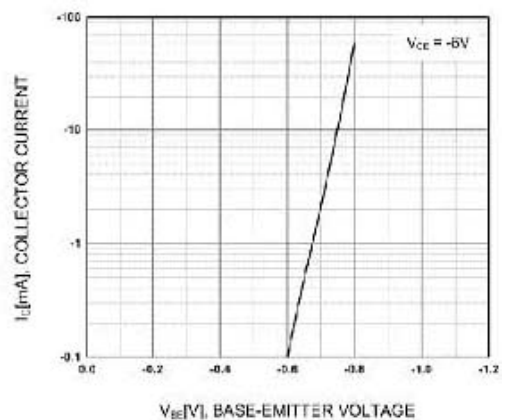
Static Characteristic



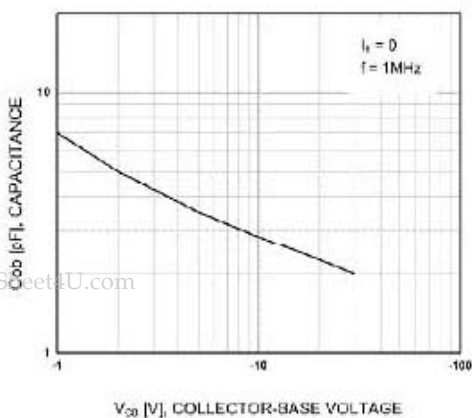
DC current Gain



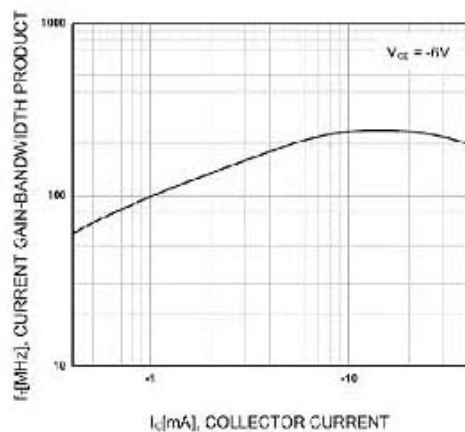
**Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage**



Base-Emitter On Voltage



Collector Output Capacitance



Current Gain Bandwidth Product

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