

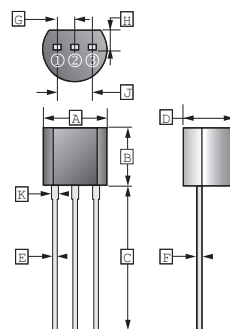
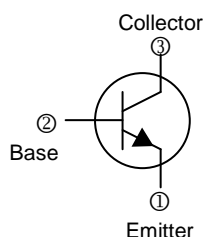
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- Switching and amplification in high voltage
- Applications such as telephony
- Low current(max.600mA)
- High voltage(max.160V)

TO-92



REF.	Millimeter	
	Min.	Max.
A	4.40	4.70
B	4.30	4.70
C	12.70	-
D	3.30	3.81
E	0.36	0.56
F	0.36	0.51
G	1.27 TYP.	
H	1.10	-
J	2.42	2.66
K	0.36	0.76

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

PARAMETER	SYMBOL	RATING	UNIT
Collector to Base Voltage	V _{CBO}	160	V
Collector to Emitter Voltage	V _{CEO}	140	V
Emitter to Base Voltage	V _{EBO}	6	V
Collector Current - Continuous	I _C	0.6	A
Collector Power Dissipation	P _C	0.625	W
Junction, Storage Temperature	T _J , T _{STG}	150, -55~150	°C

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Collector to Base Breakdown Voltage	V _{(BR)CBO}	160	-	-	V	I _C =100μA, I _E = 0A
Collector to Emitter Breakdown Voltage	V _{(BR)CEO}	140	-	-	V	I _C =1mA, I _B = 0A
Emitter to Base Breakdown Voltage	V _{(BR)EBO}	6	-	-	V	I _E =10μA, I _C = 0A
Collector Cut-Off Current	I _{CBO}	-	-	0.1	μA	V _{CB} =100V, I _E = 0 A
Emitter Cut-Off Current	I _{EBO}	-	-	0.05	μA	V _{EB} =4 V, I _C = 0 mA
DC Current Gain	h _{FE1}	60	-	-		V _{CE} =5V, I _C =1mA
	h _{FE2}	60	-	250		V _{CE} =5V, I _C =10mA
	h _{FE3}	20	-	-		V _{CE} =5V, I _C =50mA
Collector to Emitter Saturation Voltage	V _{CE(sat)}	-	-	0.15	V	I _C =10mA, I _B =1mA
		-	-	0.25	V	I _C =50mA, I _B =5mA
Base to Emitter Voltage	V _{BE(sat)}	-	-	1	V	I _C =10mA, I _B =1mA
		-	-	1.2	V	I _C =50mA, I _B =5mA
Collector Output Capacitance	C _{ob}	-	-	6	pF	V _{CB} = 10V, I _E = 0A, f=1MHz
Transition Frequency	f _T	100	-	300	MHz	V _{CE} = 10V, I _C = 10mA, f=100MHz
Noise Figure	NF	-	-	10	dB	V _{CE} =5V, I _C = 0.25mA, f=1KHz, R _S =1kΩ

CHARACTERISTIC CURVES

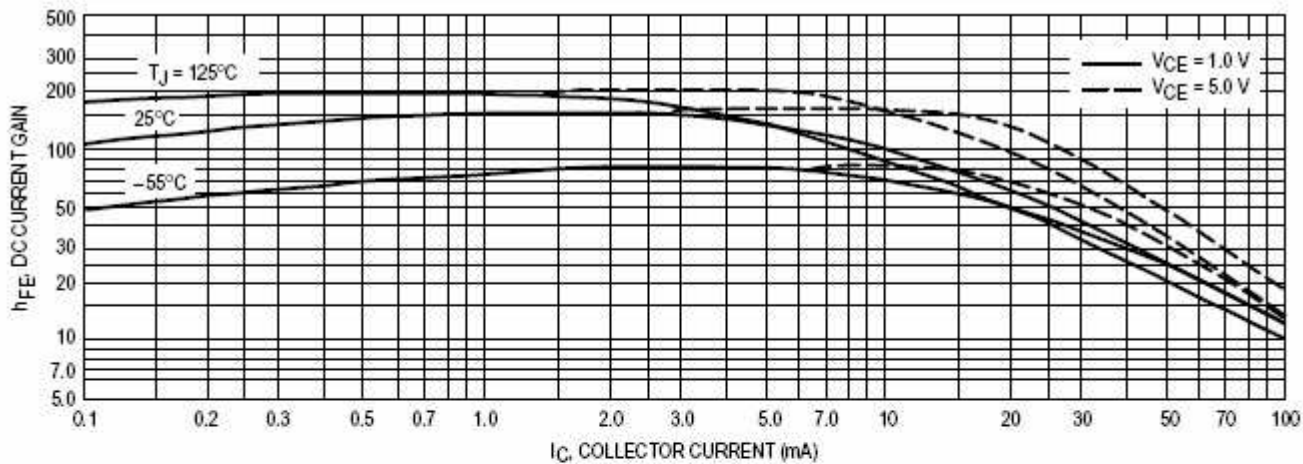


Figure 1. DC Current Gain

