

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

FEATURE

- Low noise
- High gain
- Power dissipation. ($P_C=150\text{mW}$)

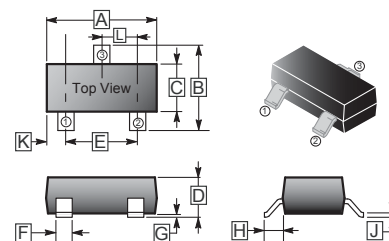
APPLICATIONS

- High frequency low noise amplifier.

CLASSIFICATION OF h_{FE}

Product-Rank	2SC4226-P	2SC4226-Q	2SC4226-R
Range	40~80	70~140	125~250
Marking	R23	R24	R25

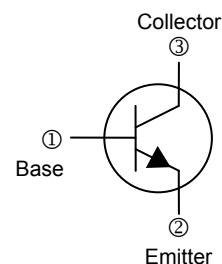
SOT-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.100	REF.
B	1.80	2.45	H	0.525	REF.
C	1.15	1.35	J	0.08	0.25
D	0.80	1.10	K	-	-
E	1.20	1.40	L	0.650	TYP.
F	0.20	0.40			

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-323	3K	7' inch



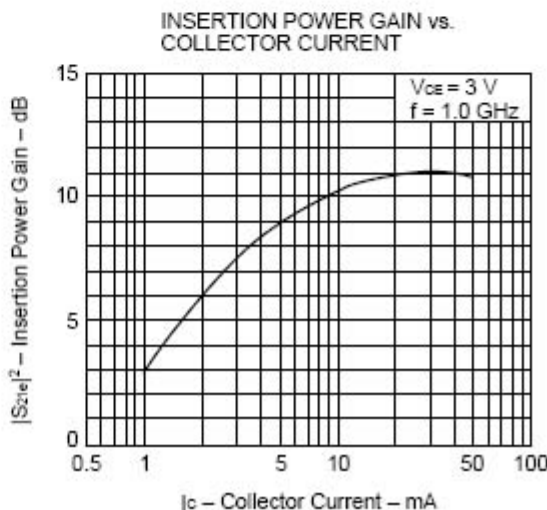
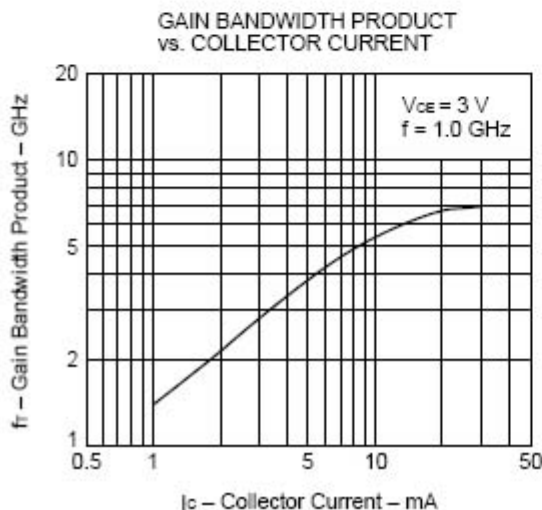
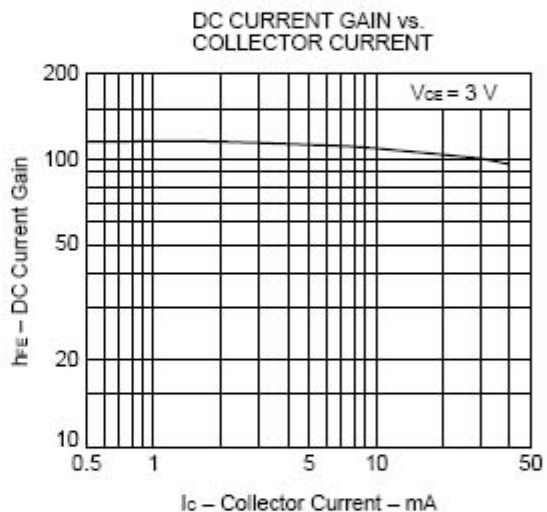
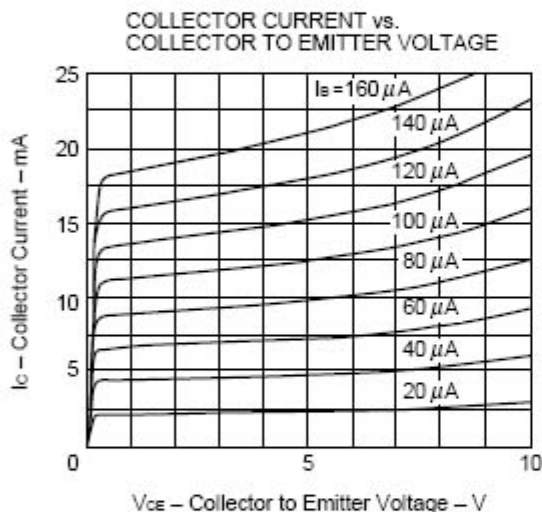
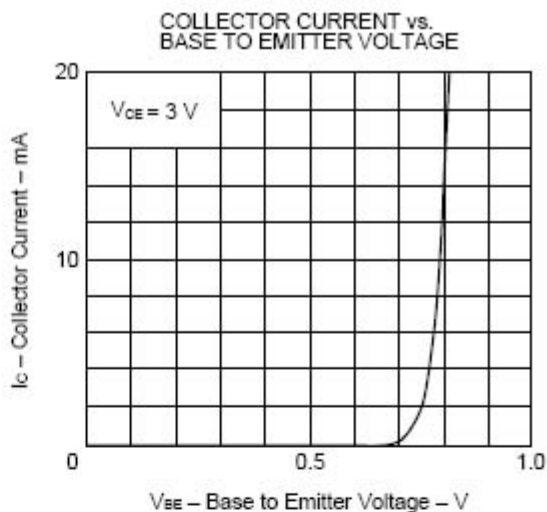
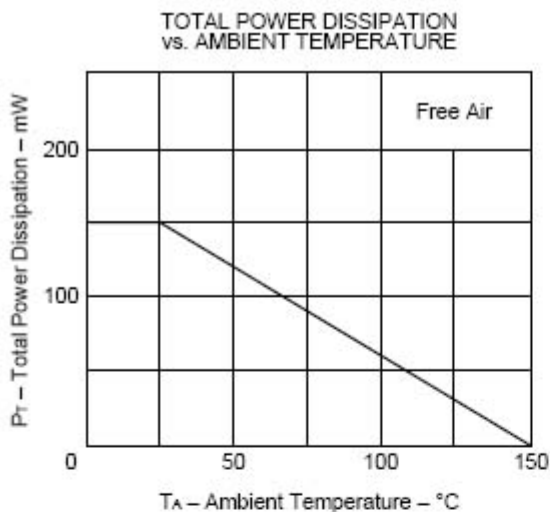
ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CB0}	20	V
Collector to Emitter Voltage	V_{CEO}	12	V
Emitter to Base Voltage	V_{EBO}	3	V
Collector Current – Continuous	I_C	100	mA
Collector Power Dissipation	P_C	150	mW
Junction, Storage Temperature	T_J, T_{STG}	+150, -65 ~ +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Testing Condition
Collector-base breakdown voltage	$V_{(BR)CBO}$	20	-	-	V	$I_C=100\mu\text{A}, I_E=0$
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	12	-	-	V	$I_C=1\text{mA}, I_B=0$
Emitter-base breakdown voltage	$V_{(BR)EBO}$	3	-	-	V	$I_E=100\mu\text{A}, I_C=0$
Collector Cut-off Current	I_{CBO}	-	-	1	μA	$V_{CB}=10\text{V}, I_E=0$
Emitter Cut-off Current	I_{EBO}	-	-	1	μA	$V_{EB}=1\text{V}, I_C=0$
DC Current Gain	h_{FE}	40	110	250		$V_{CE}=3\text{V}, I_C=7\text{mA}$
Transition Frequency	f_T	3.0	4.5	-	GHz	$V_{CE}=3\text{V}, I_E=7\text{mA}$
Feed Back Capacitance	C_{re}	-	0.7	1.5	pF	$V_{CE}=3\text{V}, I_E=0, f=1\text{MHz}$
Noise Figure	NF	-	1.2	2.5	dB	$V_{CE}=3\text{V}, I_C=7\text{mA}, f=1\text{GHz}$

CHARACTERISTIC CURVES



CHARACTERISTIC CURVES

