

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

### FEATURE

- Low noise
- High gain
- Power dissipation.( $P_C=150mW$ )

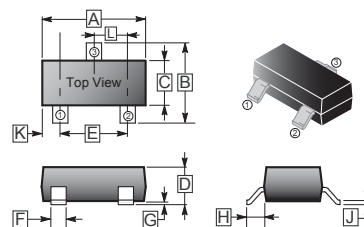
### APPLICATIONS

- 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

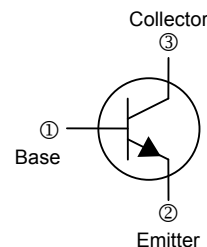
### SOT-323



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	LeaderSize
SOT-323	3K	7' inch



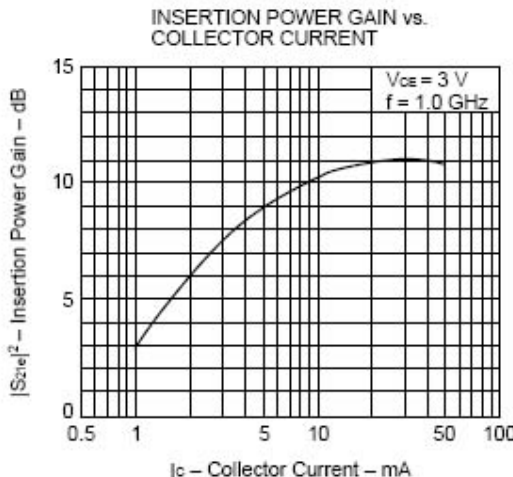
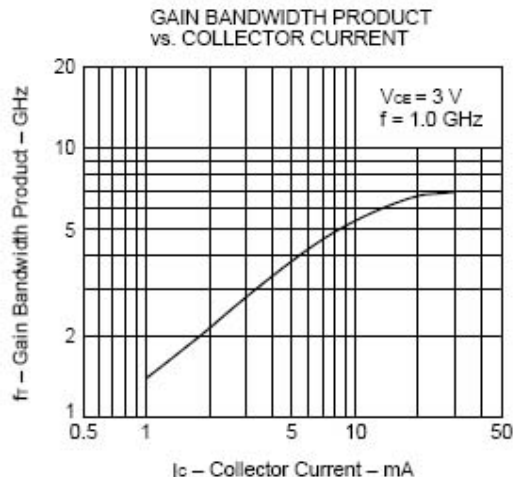
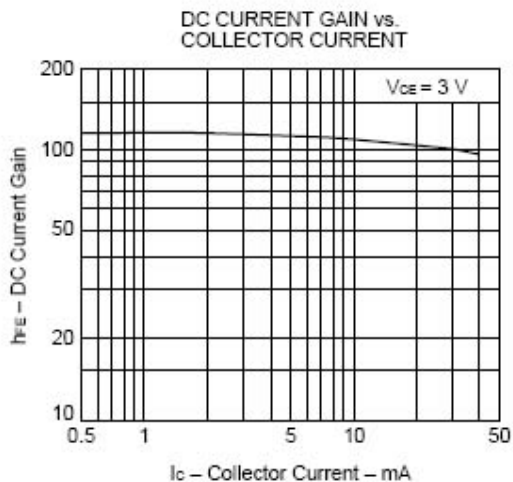
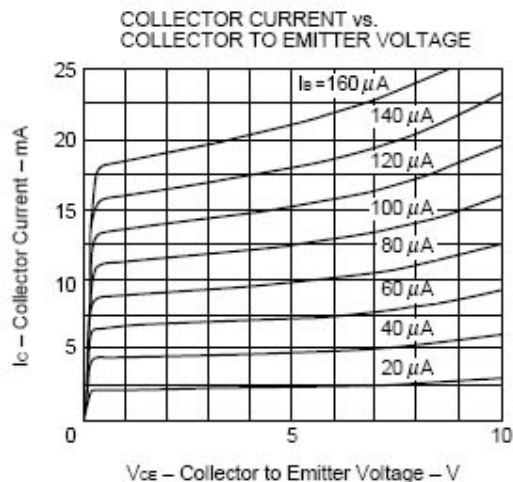
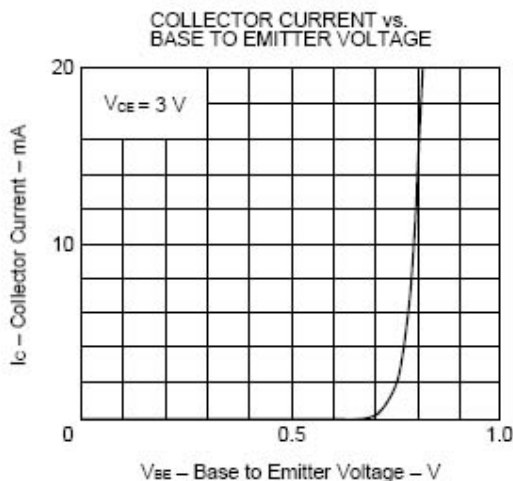
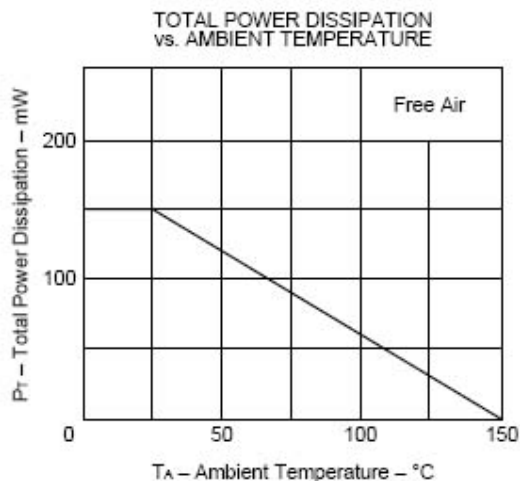
### ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ C$ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	$V_{CBO}$	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	$^\circ C$

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ C$ unless otherwise specified)

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

**CHARACTERISTIC CURVES**



**CHARACTERISTIC CURVES**

