

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

FEATURE

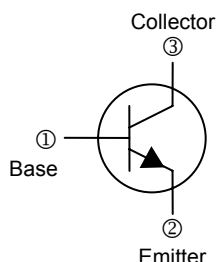
- The 2SC4226 is a Low supply voltage transistor designed for VHF, UHF low noise amplifier
- Suitable for a high density surface mount assembly since the transistor has been applied small mini mold package

PACKAGING INFORMATION

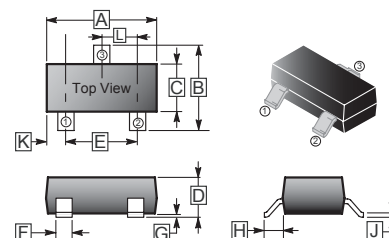
Weight: 0.0074 g

MARKING CODE

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			

ABSOLUTE MAXIMUM RATINGS (at $T_A = 25^\circ\text{C}$ 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	0.1	A
Collector Power Dissipation	P_C	150	mW
Junction, Storage Temperature	T_J, T_{STG}	+150, -65 ~ +150	$^\circ\text{C}$

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

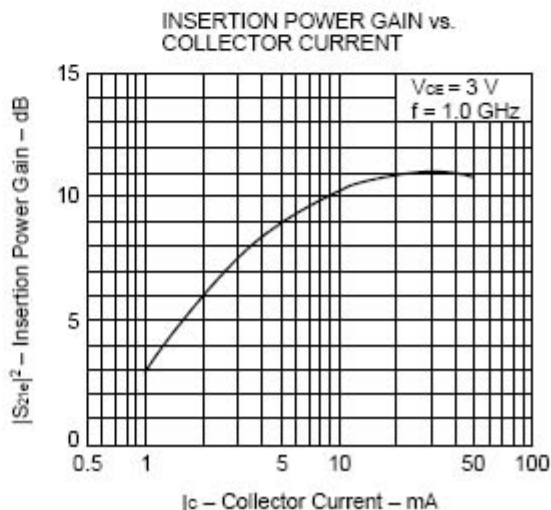
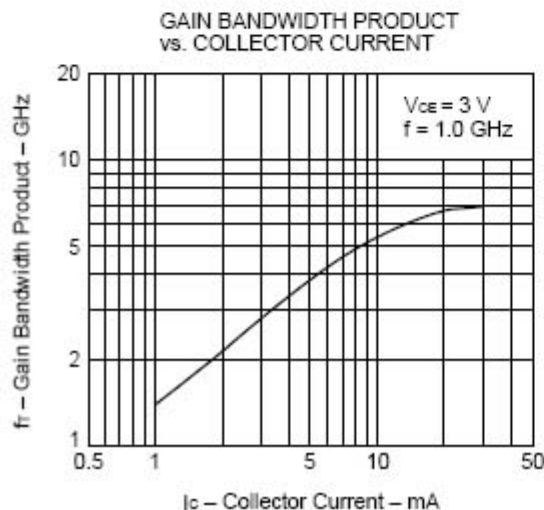
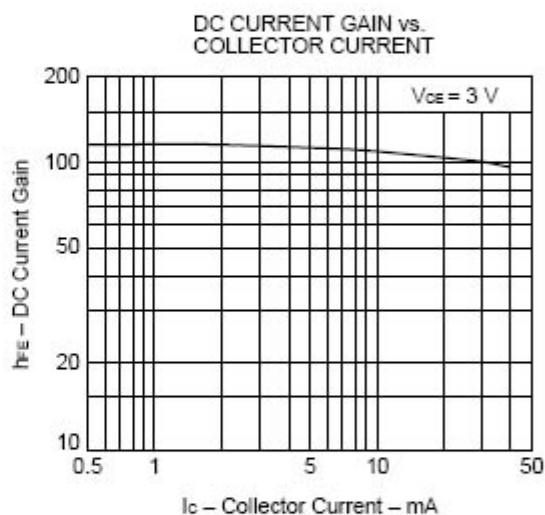
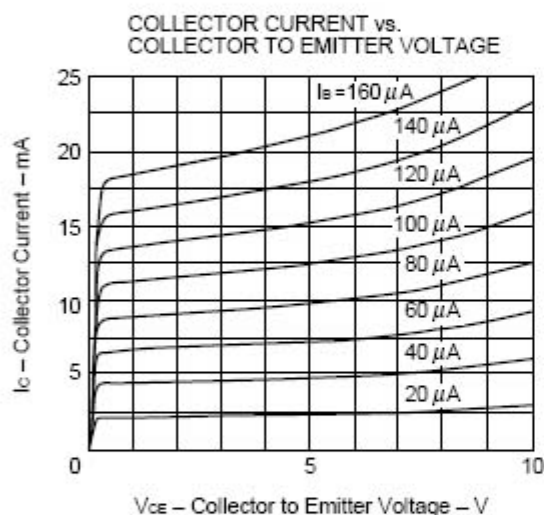
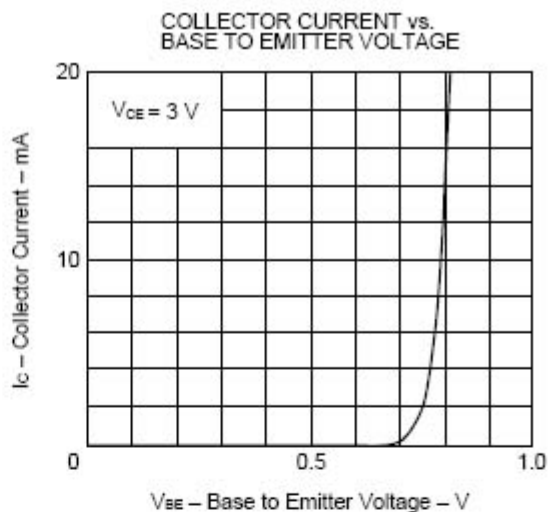
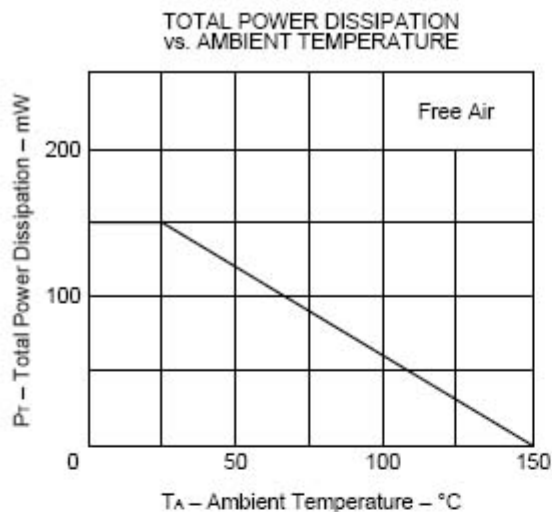
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector Cut-off Current	I_{CBO}	-	-	1	μA	$V_{CB} = 10\text{ V}, I_E = 0$
Emitter Cut-off Current	I_{EBO}	-	-	1	μA	$V_{EB} = 1\text{ V}, I_C = 0$
DC Current Gain	h_{FE}^*	40	-	250		$V_{CE} = 3\text{ V}, I_C = 7\text{ mA}$
Transition Frequency	f_T	3.0	-	-	GHz	$V_{CE} = 3\text{ V}, I_C = 7\text{ mA}$
Feed Back Capacitance	C_{re}	-	-	1.5	pF	$V_{CE} = 3\text{ V}, I_E = 0, f = 1\text{ MHz}$
Noise Figure	NF	-	-	2.5	dB	$V_{CE} = 3\text{ V}, I_C = 7\text{ mA}, f = 1\text{ GHz}$

* Pulse Test: Pulse Width $\leq 350\mu\text{s}$, Duty Cycle $\leq 2\%$

CLASSIFICATION OF h_{FE}

Marking	r23	r24	r25
Rank	P	Q	R
Range	40 - 80	70 - 140	125 - 250

CHARACTERISTIC CURVES



CHARACTERISTIC CURVES

