



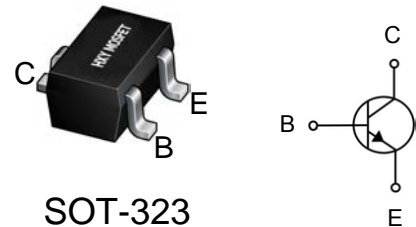
Features

- Collector Current: $I_C = 0.1A$
- Power Dissipation of 150mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
2SC4226	SOT-323	R2x	3000

x:From 4/5



Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	20	V
V_{CEO}	Collector-Emitter Voltage	12	V
V_{EBO}	Emitter-Base Voltage	3	V
I_C	Collector Current-Continuous	0.1	A
P_C	Collector Power Dissipation	150	mW
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55-150	°C

Electrcal Charcteristics (Ta=25 unless otherwise specified)

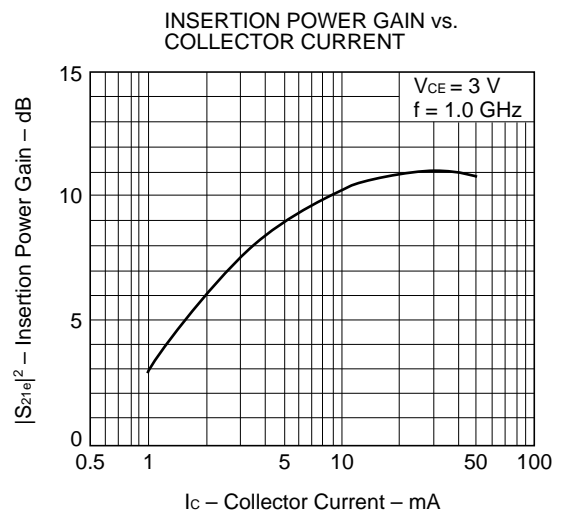
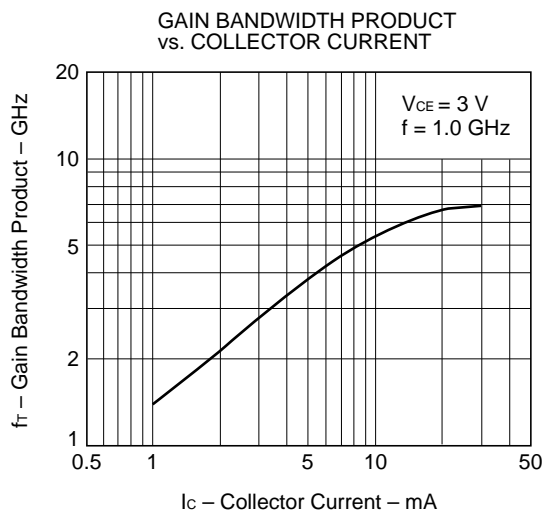
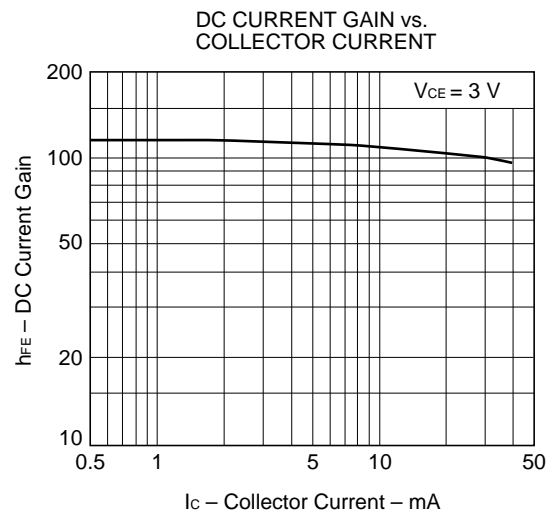
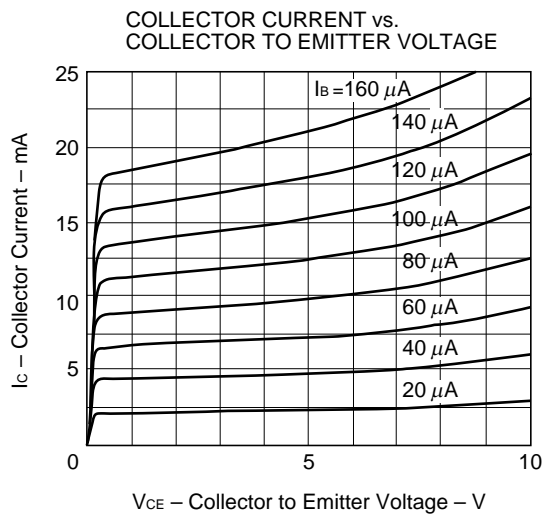
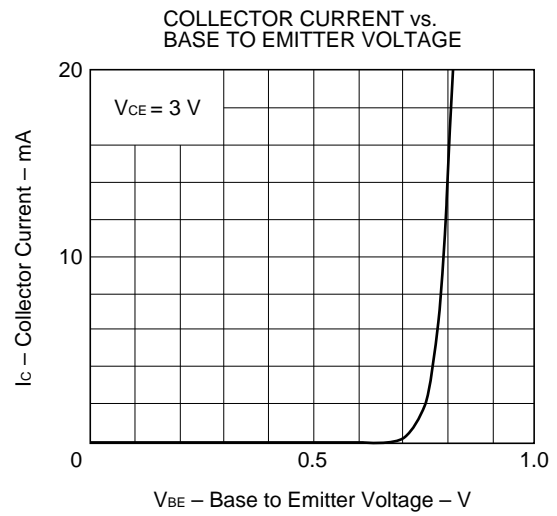
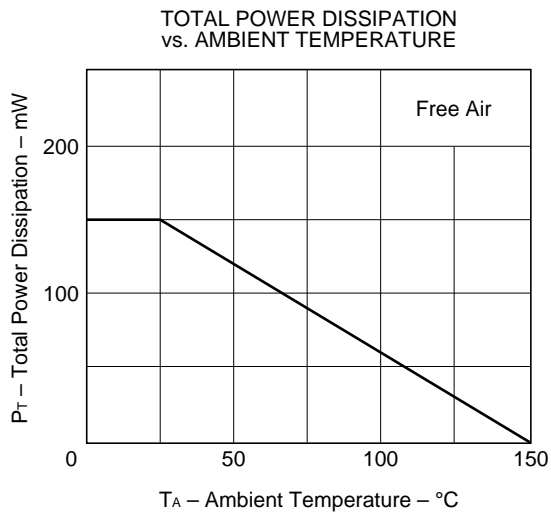
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Collector-base breakdown voltage	V_{CBO}	20			V	$I_C = 1.0\mu A$
Collector cut-off current	I_{CBO}			0.1	μA	$V_{CB} = 10V$
Emitter cut-off current	I_{EBO}			0.1	μA	$V_{EB} = 1V$
DC current gain	h_{FE}	60	150	300		$V_{CE} = 3V, I_C = 7mA$
Transit frequency	f_T	3.5	4.5		GHz	$V_{CE} = 3V, I_C = 7mA$
Output feedback capacitance	C_{re}		0.65	1.0	pF	$V_{CB} = 10V, I_E = 0mA, f = 1MHz$
Power gain	$ S_{21e} ^2$		9.5		dB	$V_{CE} = 3V, I_C = 3mA, f = 1GHz$
			10.7		dB	$V_{CE} = 3V, I_C = 5mA, f = 1GHz$
			11		dB	$V_{CE} = 3V, I_C = 7mA, f = 1GHz$
			11.6		dB	$V_{CE} = 3V, I_C = 10mA, f = 1GHz$
Noise factor	NF		1.4	2.0	dB	$V_{CE} = 3V, I_C = 7mA, f = 1GHz$
			1.6	2.3		$V_{CE} = 10V, I_C = 5mA, f = 1GHz$

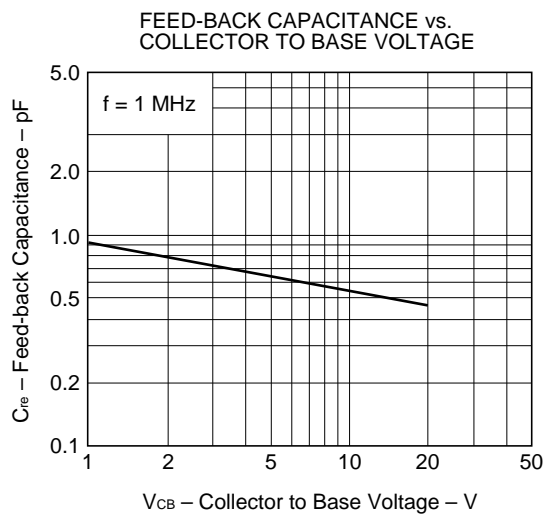
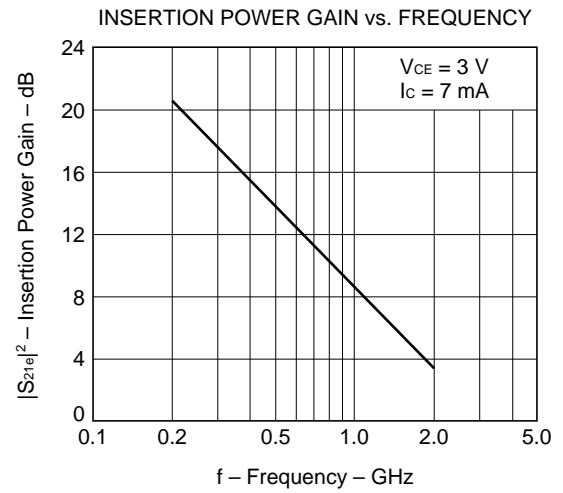
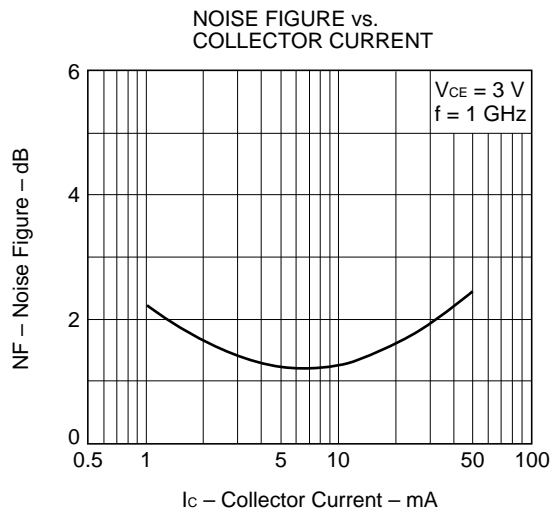
Classification Of h_{FE}

Rank	A	B	C	D	E
Marking	R24		R25		
Range	60-100	90-140	130-180	170-250	250-300



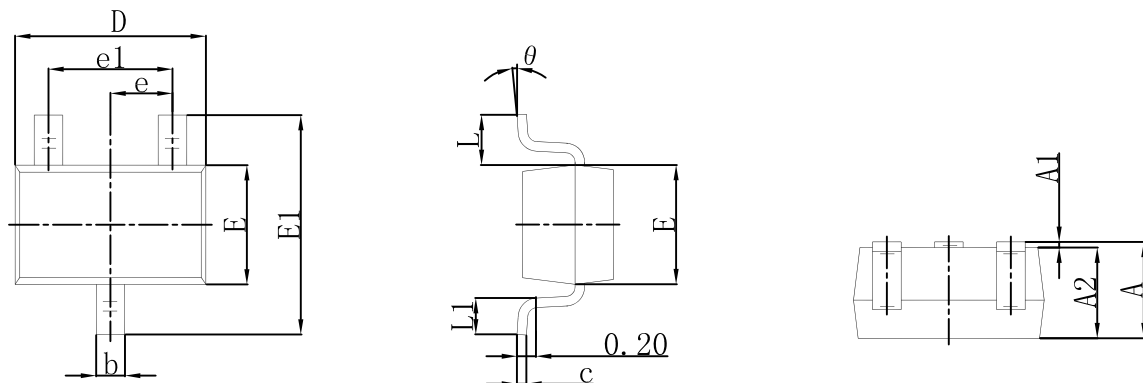
Typical Characteristics







Package Dimensions SOT-323



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
K	0°	8°	0°	8°



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