

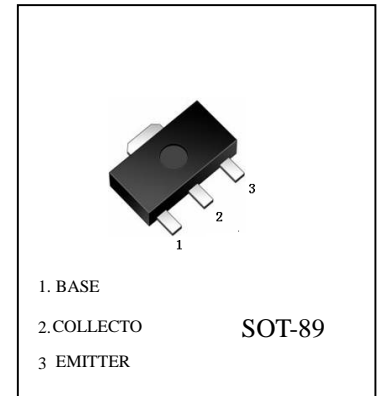
2SC3357 (NPN)

DESCRIPTION

- Low Noise and High Gain
 $NF = 1.1 \text{ dB TYP.}, G_a = 8.0 \text{ dB TYP.}$
 $@V_{CE} = 10 \text{ V}, I_C = 7 \text{ mA}, f = 1.0 \text{ GHz}$
 $NF = 1.8 \text{ dB TYP.}, G_a = 9.0 \text{ dB TYP.}$
 $@V_{CE} = 10 \text{ V}, I_C = 40 \text{ mA}, f = 1.0 \text{ GHz}$

APPLICATIONS

- Designed for low noise amplifier at VHF, UHF and CATV band.



ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	20	V
V_{CEO}	Collector-Emitter Voltage	12	V
V_{EBO}	Emitter-Base Voltage	3.0	V
I_C	Collector Current-Continuous	0.1	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	1.2	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS
2SC3357

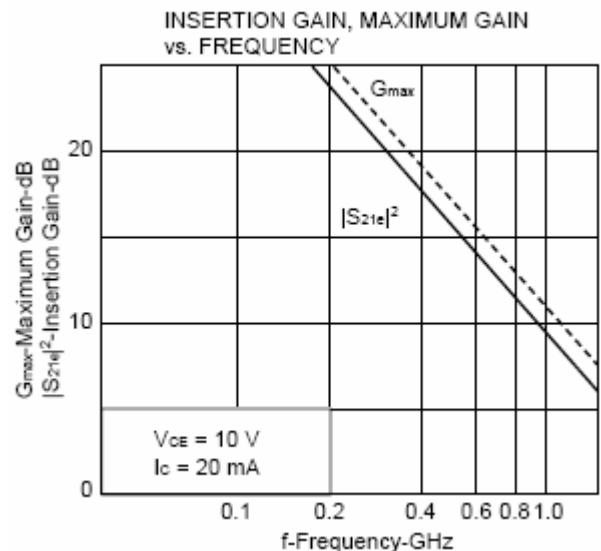
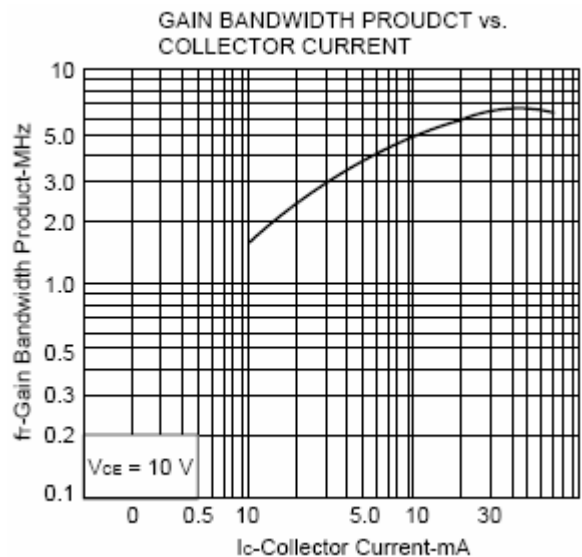
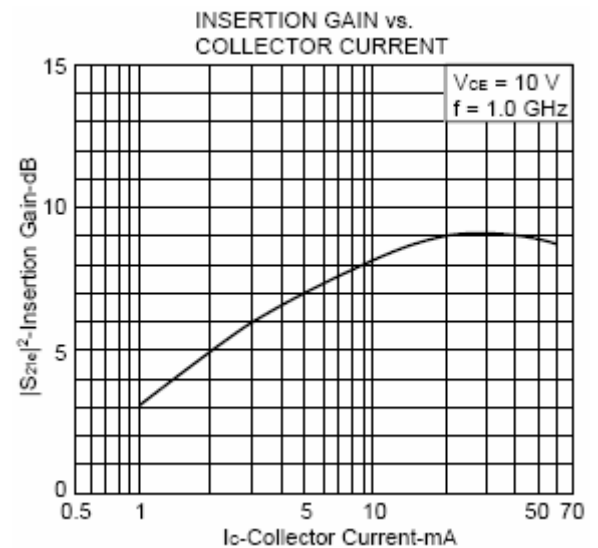
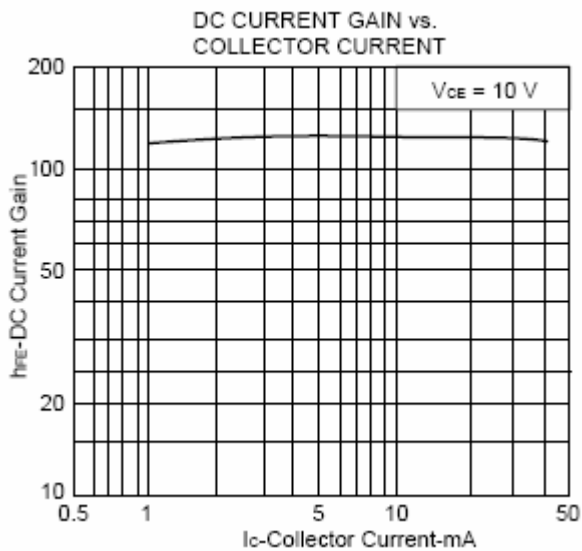
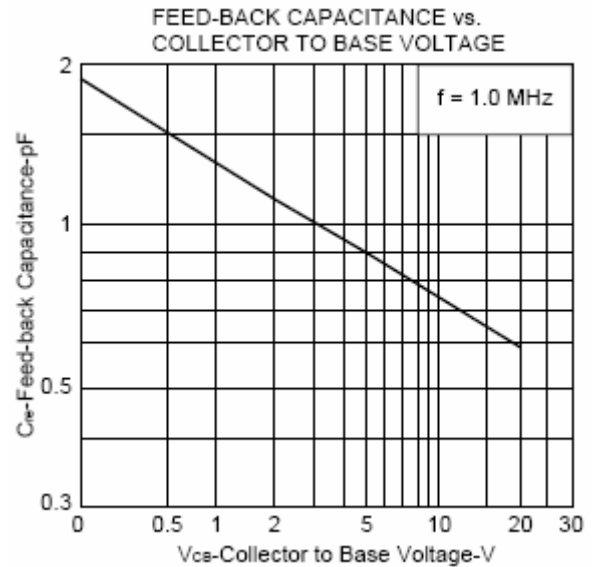
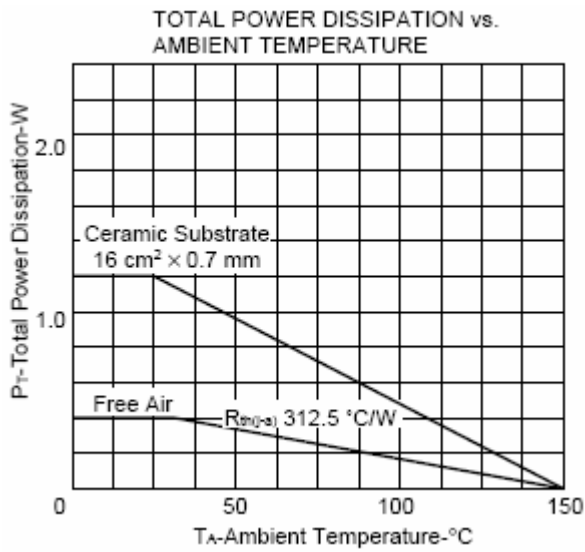
 T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I _{CBO}	Collector Cutoff Current	V _{CB} = 10V; I _E = 0			1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 1V; I _C = 0			1.0	μ A
h _{FE}	DC Current Gain	I _C = 20mA ; V _{CE} = 10V	50		300	
f _T	Current-Gain—Bandwidth Product	I _C = 20mA ; V _{CE} = 10V		6.5		GHz
C _{re}	Feed-Back Capacitance	I _E = 0 ; V _{CB} = 10V;f= 1.0MHz		0.65	1.0	pF
S _{21e} ²	Insertion Power Gain	I _C = 20mA ; V _{CE} = 10V;f= 1.0GHz		9		dB
NF	Noise Figure	I _C = 7mA ; V _{CE} = 10V;f= 1.0GHz		1.1		dB
NF	Noise Figure	I _C = 40mA ; V _{CE} = 10V;f= 1.0GHz		1.8	3.0	dB

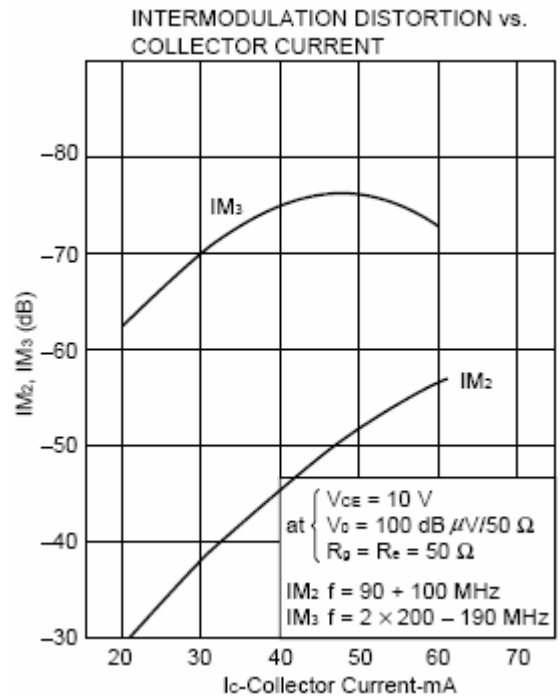
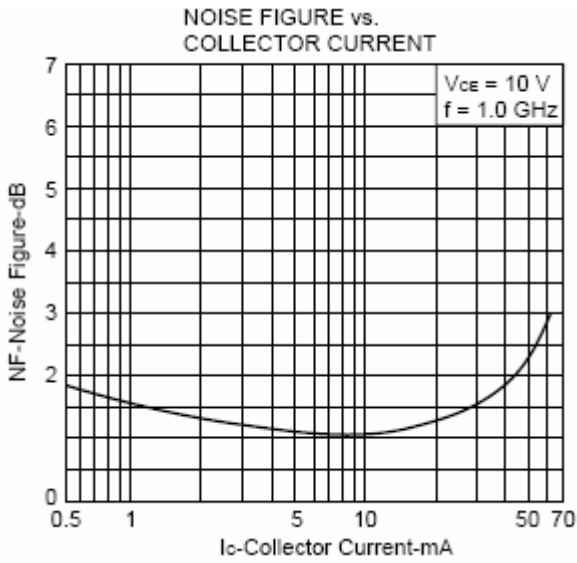
◆ h_{FE} Classification

Marking	RH	RF	RE
h _{FE}	50-100	80-160	125-250

2SC3357



2SC3357



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