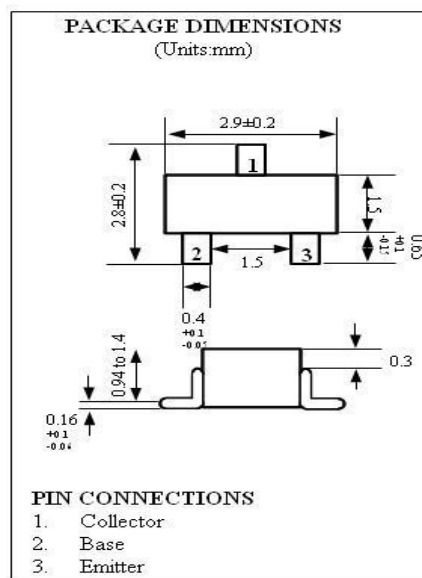


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1.0 Features

- Low noise amplifier at VHF, UHF and Microwave bands.
- Low Noise and High Gain
 - NF = 1.1 dB TYP., Ga = 11 dB TYP. @ V_{CE} = 10 V, I_C = 7 mA, f = 1GHz
- High Power Gain
 - MAG = 13 dB TYP. @ V_{CE} = 10 V, I_C = 20 mA, f = 1 GHz



2.0 Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Value	Units
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 (DC)	I _C	0.1	A
Total power dissipation	P _T	0.1	W
Junction temperature	T _J	150	°C
Storage temperature range	T _{stg}	-65 to +150	°C

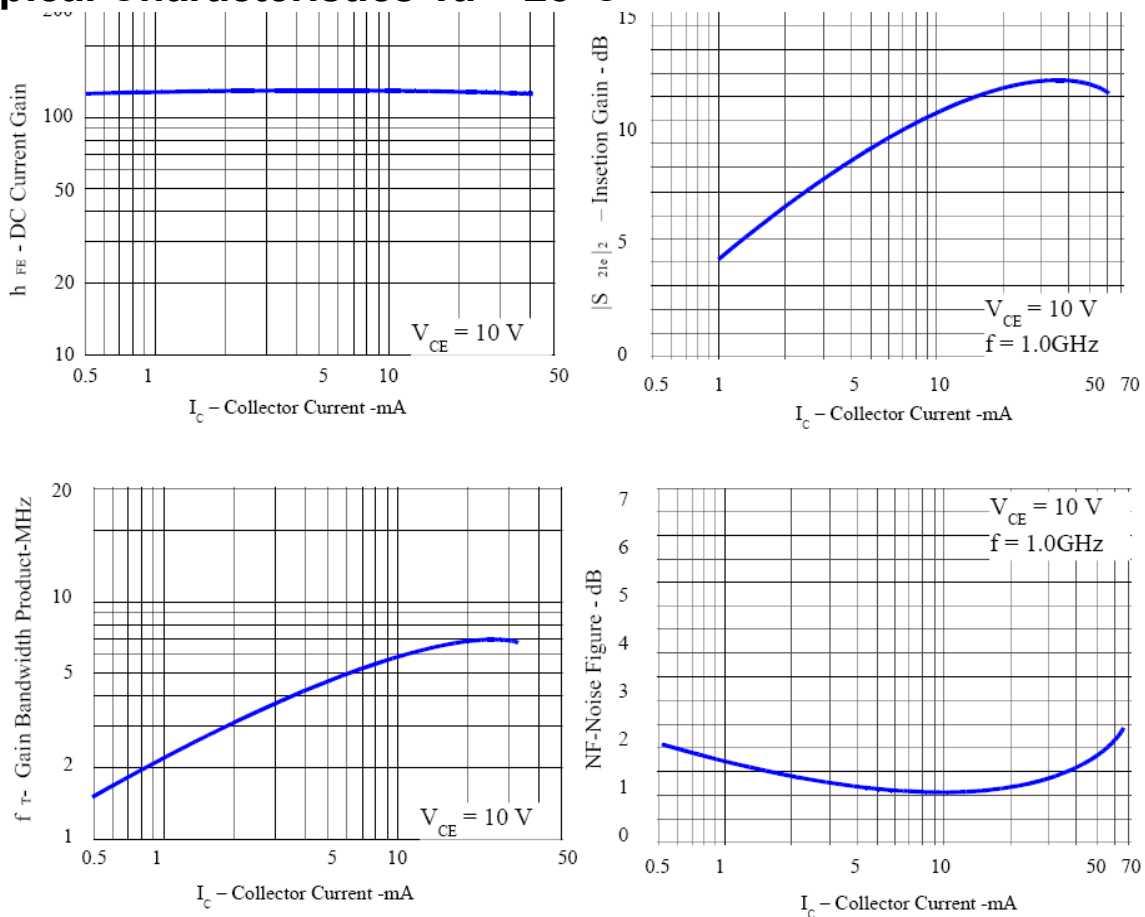
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3.0 Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 10V, I_E = 0$			1	uA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 10V, I_C = 0$			1	uA
DC Current Gain	h_{FE}	$V_{CE} = 10V, I_C = 20mA$	50	120	300	
Gain Bandwidth Product	f_T	$V_{CE} = 10V, I_C = 20mA$		7		GHz
Feed-Back Capacitance	C_{re}	$V_{CB} = 10V, I_E = 0, f = 1.0MHz$		0.55	1	pF
Insertion Power Gain	$ S_{21e} ^2$	$V_{CE} = 10V, I_C = 20mA, f = 1.0GHz$		11.5		dB
Noise Figure	NF	$V_{CE} = 10V, I_C = 7mA, f = 1.0GHz$		1.1	2	dB

4.0 Typical Characteristics Ta = 25°C



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5.0 IMPORTANT NOTICE

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