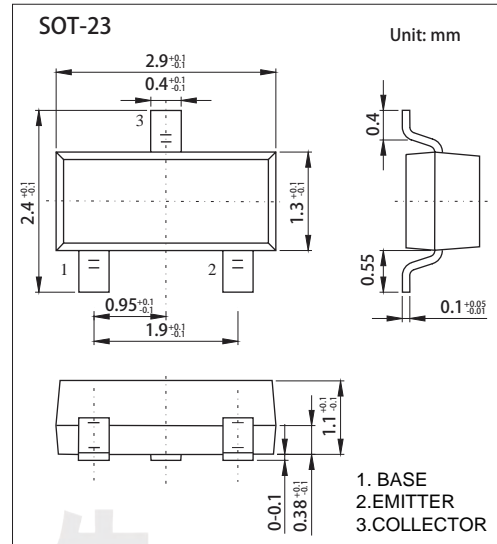


Transistor

NPN Transistors 2SC3356

■ Features

- Low Noise and High Gain
- High Power Gain



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	20	V
Collector - Emitter Voltage	V_{CE0}	12	
Emitter - Base Voltage	V_{EB0}	3	
Collector Current - Continuous	I_c	100	mA
Collector Power Dissipation	P_c	200	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{stg}	-65 to 150	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collecto- base breakdown voltage	V_{CB0}	$I_c = 100 \mu\text{A}, I_E = 0$	20			V
Collector- emitter breakdown voltage	V_{CE0}	$I_c = 1 \text{mA}, I_B = 0$	12			
Emitter - base breakdown voltage	V_{EB0}	$I_E = 100 \mu\text{A}, I_C = 0$	3			
Collector cut-off current	I_{CBO}	$V_{CB} = 10 \text{V}, I_E = 0$			1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 1 \text{V}, I_C = 0$			1	
DC current gain	h_{FE}	$V_{CE} = 10 \text{V}, I_c = 20 \text{mA}$	50		300	
Noise Figure	NF	$V_{CE} = 10 \text{V}, I_c = 7 \text{mA}, f = 1 \text{GHz}$			2	dB
Feed-Back Capacitance	C_{re}	$V_{CB} = 10 \text{V}, I_E = 0, f = 1 \text{MHz}$			1	pF
Transition frequency	f_T	$V_{CE} = 20 \text{V}, I_c = 10 \text{mA}, f = 30 \text{MHz}$	50			MHz

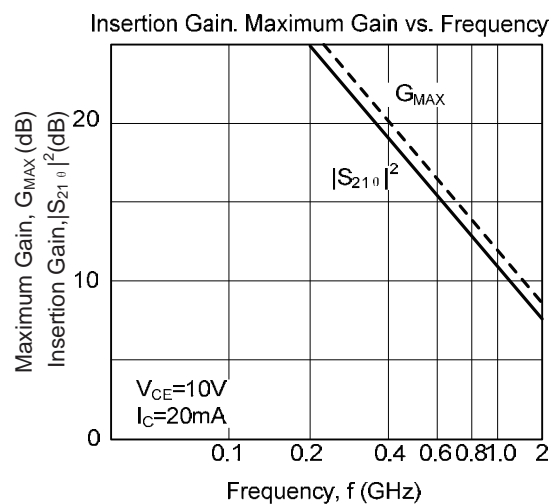
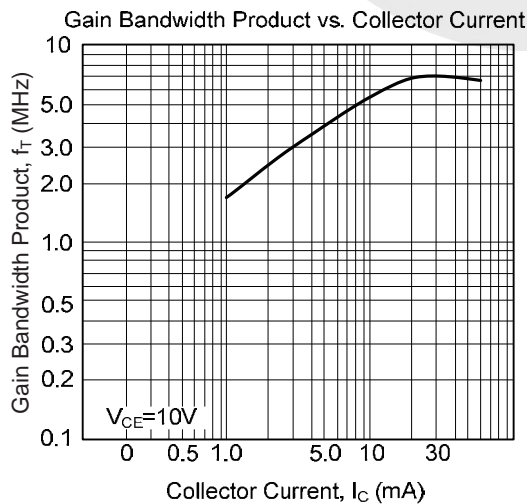
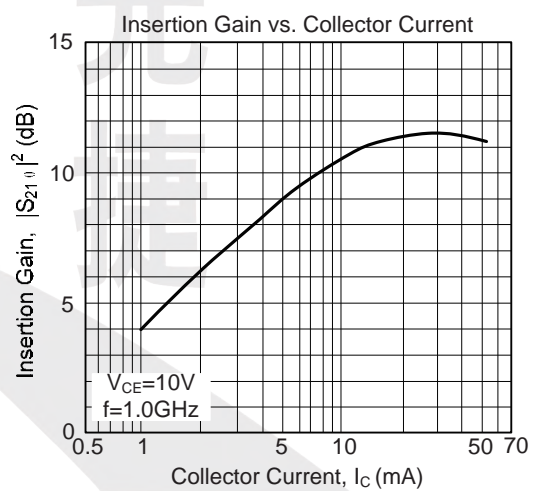
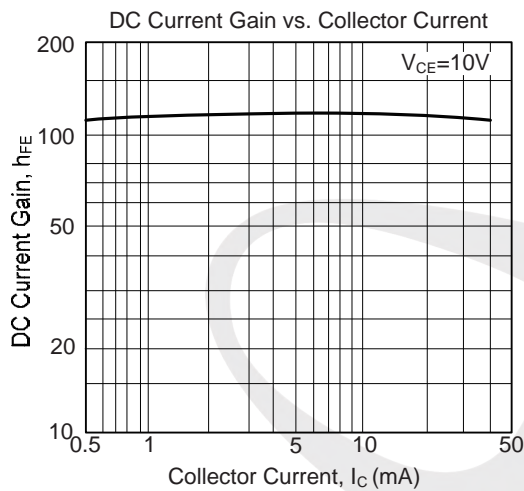
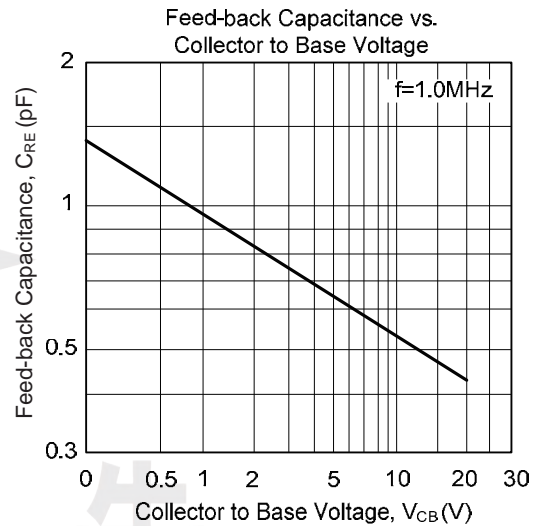
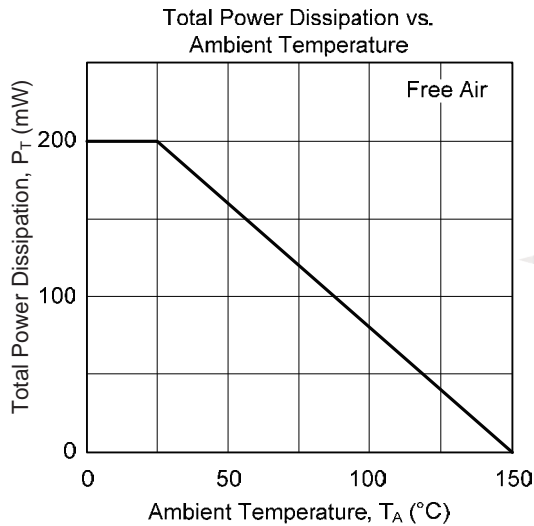
■ Classification of h_{FE}

Rank	A	B	C
Range	50-160	160-240	240-300
Marking	R25		

Transistor

NPN Transistors 2SC3356

Typical Characteristics



Transistor

NPN Transistors 2SC3356

■ Typical Characteristics

