



Micro Commercial Components

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2SC3356

NPN Silicon Epitaxial Transistors

Features

- Low noise and high gain
- High power gain
- Marking Code: 2SC3356=R25
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	12	V
V_{CBO}	Collector-Base Voltage	20	V
V_{EBO}	Emitter-Base Voltage	3.0	V
I_C	Collector Current	100	mA
P_C	Collector power dissipation	200	mW
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
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OFF CHARACTERISTICS

I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=10Vdc, I_E=0$)	---	---	1.0	μA_{dc}
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=1.0Vdc, I_C=0$)	---	---	1.0	μA_{dc}

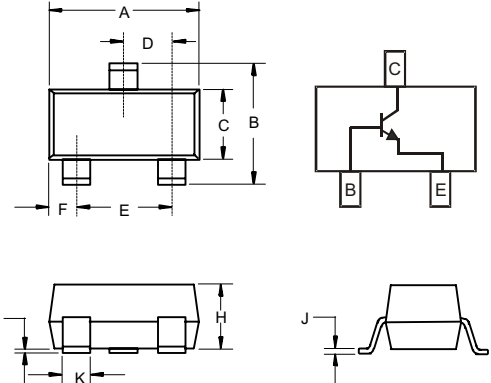
ON CHARACTERISTICS

h_{FE}	Forward Current Transfer ratio ($I_C=20mAdc, V_{CE}=10Vdc$)	50	---	300	---
f_T	Gain Bandwidth Product ($V_{CE}=10Vdc, I_C=20mA$)	---	7.0	---	GHz
C_{re}	Feed-Back Capacitance ($V_{CE}=11Vdc, I_C=0, f=1.0MHz$)	---	---	1.0	pF
NF	Noise Figure ($V_{CE}=10V, I_C=7.0mA, f=1.0GHz$)	---	---	2.0	dB

CLASSIFICATION OF h_{FE}

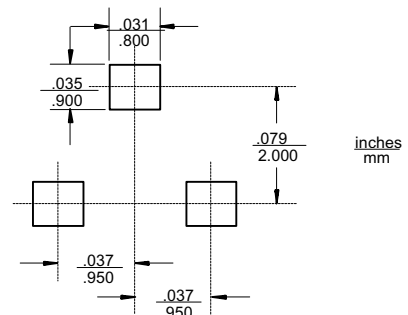
RANK	A	B	C
RANGE	80-160	160-240	240-300

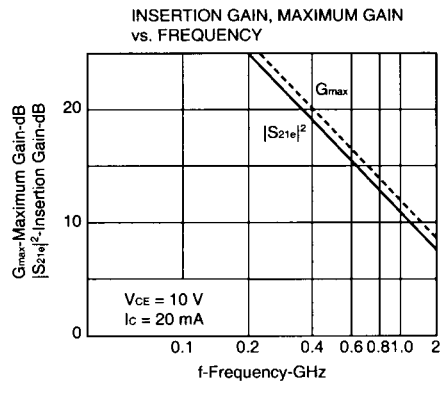
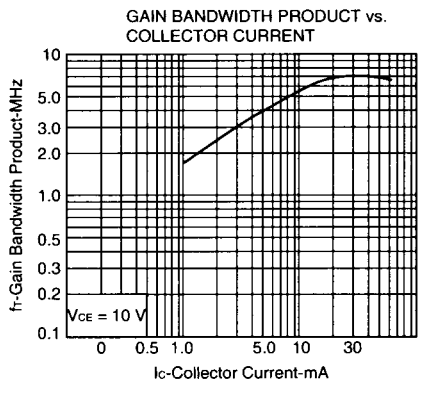
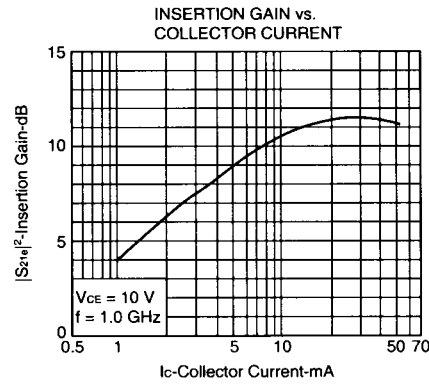
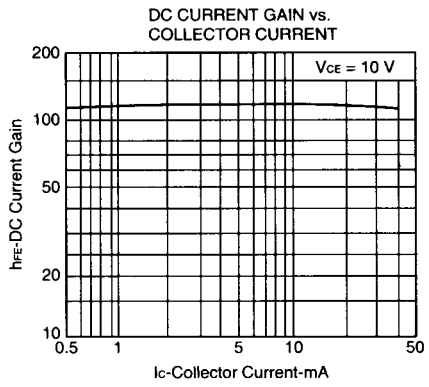
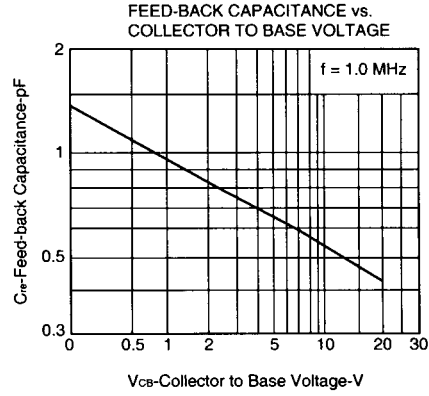
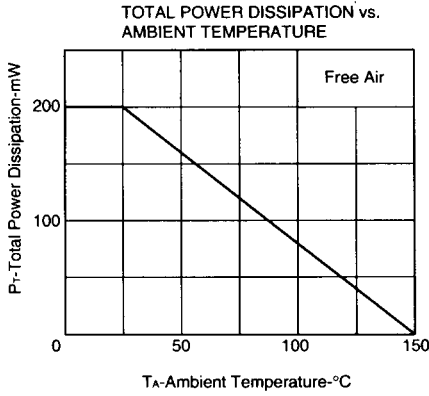
SOT-23



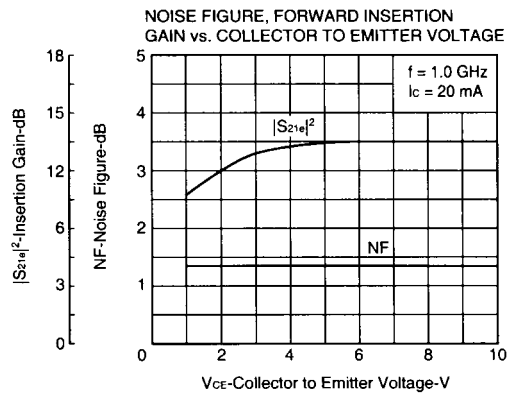
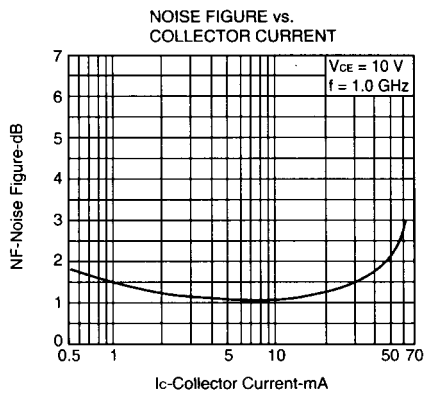
DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout





2SC3356





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Ordering Information

Device (Part Number)-TP	Packing Tape&Reel;3Kpcs/Reel
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