

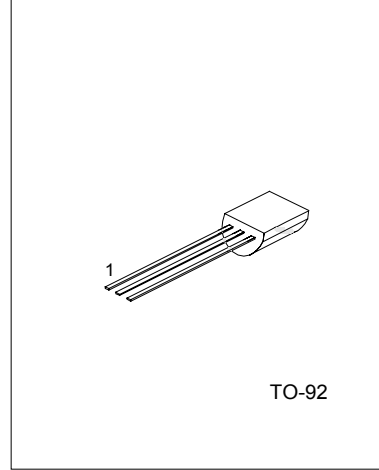
UTC 2SC3355

NPN SILICON EPITAXIAL TRANSISTOR

HIGH FREQUENCY LOW NOISE AMPLIFIER

FEATURES

- *Low Noise and High Gain
- *High Power Gain



1: BASE 2: EMITTER 3: COLLECTOR

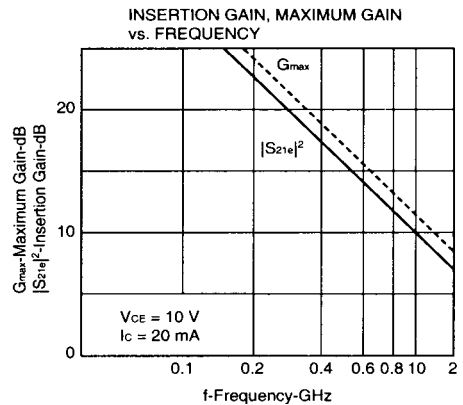
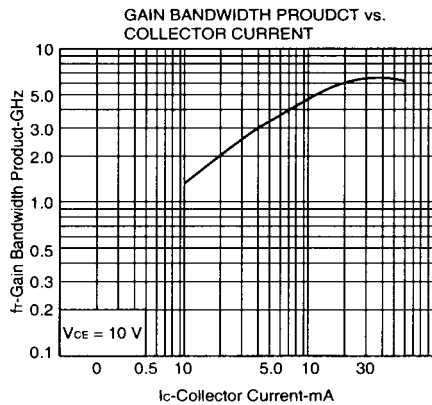
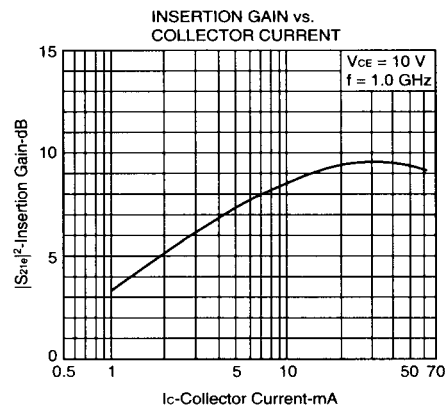
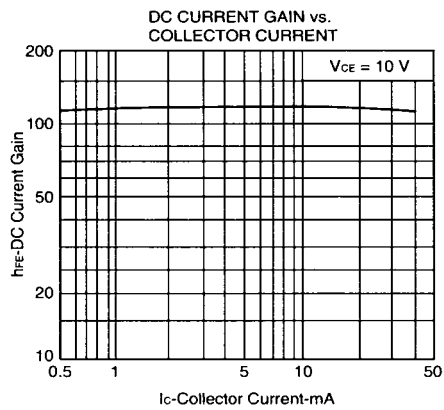
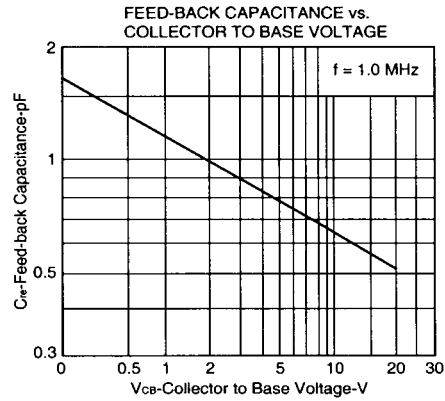
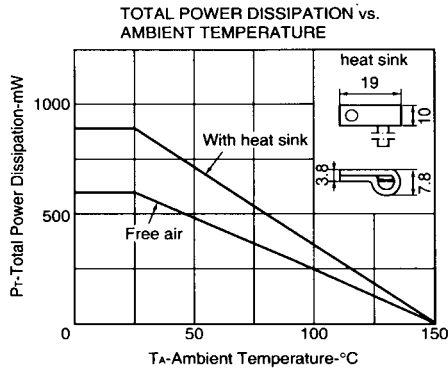
ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

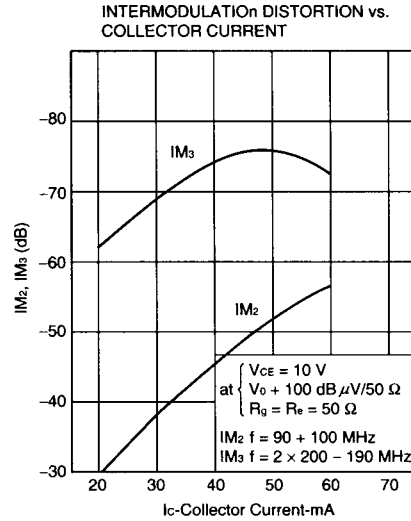
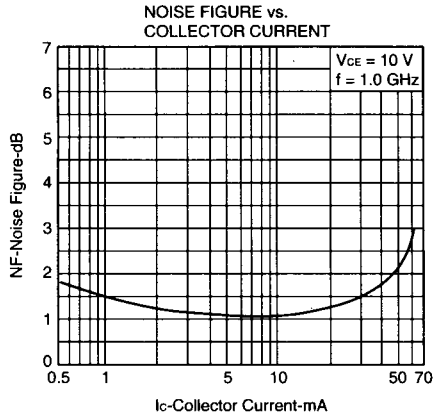
PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CB0}	20	V
Collector-emitter voltage	V_{CEO}	12	V
Emitter-base voltage	V_{EB0}	3	V
Collector current	I_C	100	mA
Total power dissipation	P_T	600	mW
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-65 ~ +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cutoff Current	I_{CB0}	$V_{CB}=10\text{V}, I_E=0$			1.0	μA
Emitter Cutoff Current	I_{EB0}	$V_{EB}=1\text{V}, I_C=0$			1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}, I_C=20\text{mA}$	50		300	
Gain bandwidth Product	fT	$V_{CE}=10\text{V}, I_C=20\text{mA}$		7		GHz
Feed-Back Capacitance	C_{re}	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$			1.0	pF
Noise Figure	NF	$V_{CE}=10\text{V}, I_C=7\text{mA}, f=1.0\text{GHz}$		1.1		dB

TYPICAL CHARACTERISTICS (TA=25°C)





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