2SC3356

NPN SILICON TRANSISTOR

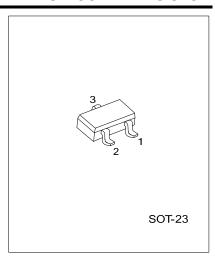
HIGH FREQUENCY LOW NOISE AMPLIFIER

DESCRIPTION

The UTC **2SC3356** is designed for such applications as: DC/DC converters, supply line switching, battery charger, LCD backlighting, peripheral drivers, Driver in low supply voltage applications (e.g. lamps and LEDs) and inductive load driver (e.g. relays, buzzers and motors).

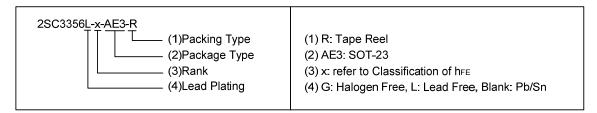
■ FEATURES

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



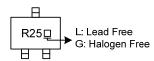
ORDERING INFORMATION

Ordering Number			Dankana	Pin Description			Dankina	
Normal	Lead Free Plating	Halogen Free	Package	1	2	3	Packing	
2SC3356-x-AE3-R	2SC3356L-x-AE3-R	2SC3356G-x-AE3-R	SOT-23	Е	В	С	Tape Reel	



■ MARKING

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ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	BV_{CBO}	20	V
Collector to Emitter Voltage	BV_{CEO}	12	V
Emitter to Base Voltage	BV_{EBO}	3	V
Collector Current	Ic	100	mA
Power Dissipation	P_{D}	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-65~ +150	°C

Notes: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ **ELECTRICAL CHARACTERISTICS** (T_a=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Cut-Off Current	I _{CBO}	V _{CB} =10 V,I _E =0			1.0	μΑ
Emitter-Base Cut-Off Current	I _{EBO}	$V_{EB} = 1 \text{ V}, I_C = 0$			1.0	μA
DC Current Gain	h _{FE}	V_{CE} =10 V, I_{C} =20 mA	50		300	
Gain Bandwidth Product	f _T	V_{CE} =10 V, I_{C} =20 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	$V_{CE} = 10 \text{ V}, I_{C} = 7\text{mA}, f = 1.0\text{GHz}$			2.0	dB

■ CLASSIFICATION OF h_{FE}

RANK	A	В	С
RANGE	50-160	160-240	240-300

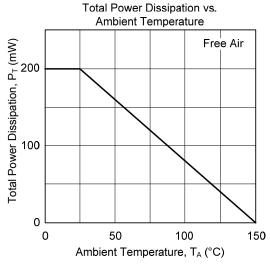


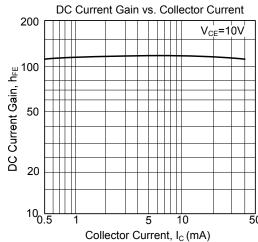
UNISONIC TECHNOLOGIES CO., LTD

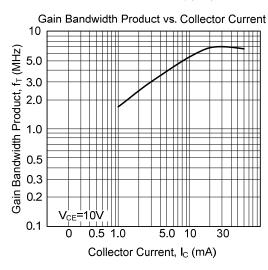
2SC3356

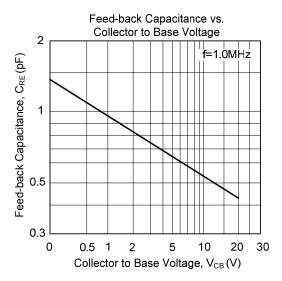
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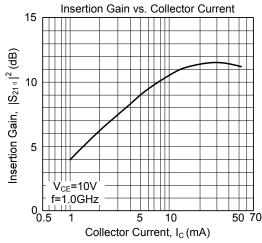
TYPICAL CHARACTERISTICS

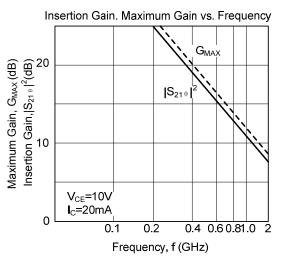












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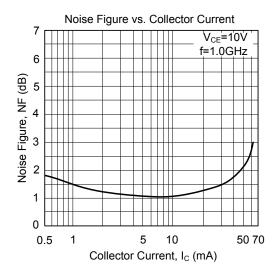
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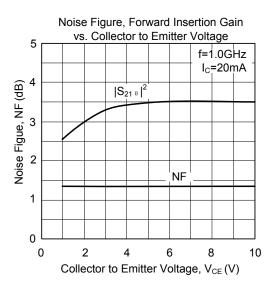


2SC3356

NPN SILICON TRANSISTOR

■ TYPICAL CHARACTERISTICS(Cont.)





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