

UTC UNISONIC TECHNOLOGIES CO., LTD

2SC1623

Preliminary

NPN SILICON TRANSISTOR

AUDIO FREQUENCY GENERAL PURPOSE AMPLIFIER NPN SILICON TRANSISTOR MINI MOLD

DESCRIPTION

The UTC 2SC1623 is a NPN silicon transistor using UTC's advanced technology to provide customers with high DC current gain and high breakdown voltage.

The UTC 2SC1623 is usually used in audio frequency general purpose amplifier.

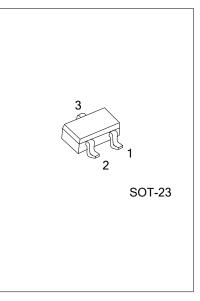
FEATURES

* High breakdown Voltage

* High DC Current Gain

ORDERING INFORMATION

Ordering	Dookogo	Pin Assignment			Deaking		
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SC1623L-x-AE3-R	2SC1623G-x-AE3-R	SOT-23	Е	В	С	Tape Reel	
Note: Pin Assignment: E: Emitte							



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	V _{CBO}	60	V
Collector to Emitter Voltage	V _{CEO}	50	V
Emitter to Base Voltage	V _{EBO}	5.0	V
Collector Current (DC)	Ι _C	100	mA
Power Dissipation	PD	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-55~+150	°C

Note: 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)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cutoff Current	I _{CBO}	V _{CB} =60V, I _E =0			0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =5.0V, I _C =0			0.1	μA
DC Current Gain	h _{FE}	V _{CE} =6.0V, I _C =1.0mA (Note 1)	90	200	600	
Collector Saturation Voltage	V _{CE(SAT)}	I _C =100mA, I _B =10mA (Note 1)		0.15	0.3	V
Base to Saturation Voltage	V _{BE(SAT)}	I _C =100mA, I _B = 10mA (Note 1)		0.86	1.0	V
Base Emitter Voltage	V_{BE}	V _{CE} =6.0V, I _C =1.0mA (Note 1)	0.55	0.62	0.65	V
Gain Bandwidth Product	f⊤	V _{CE} = 6.0V, I _E =-10mA		250		MHz
Output Capacitance	C _{OB}	V _{CB} = 6.0V, I _E =0, f=1.0MHz		3.0		pF

Note: 1. Pulsed: PW≤350ms, Duty Cycle≤2 %

CLASSIFICATION OF h_{FE}

RANK	L4	L5	L6	L7
RANGE	90 ~ 180	135 ~ 270	200 ~ 400	300 ~ 600

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