

2SC1623

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

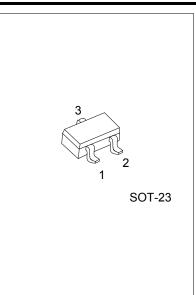
Ordering Number		Package	Pin Assignment			Docking	
Lead Free	Halogen Free	гаскауе	1	2	3	Packing	
2SC1623L-xx-AE3-R	2SC1623G-xx-AE3-R	SOT-23	В	Е	С	Tape Reel	
Note: Pin Assignment: B: Base	E: Emitter C: Collector						

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2SC1623G-xx-AE3-R (1) Packing Type (2) Package Type (2) Package Type (3) Rank (3) Rank (4) Green Package (4) Green Package	Free	
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MARKING





■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

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, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		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		600	
Collector Saturation Voltage	V _{CE(SAT)}	I _C =100mA, I _B =10mA (Note 1)			0.3	V
Base to Saturation Voltage	V _{BE(SAT)}	I _C =100mA, I _B = 10mA (Note 1)			1.0	V
Base Emitter Voltage	V _{BE}	V _{CE} =6.0V, I _C =1.0mA (Note 1)	0.55		0.7	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

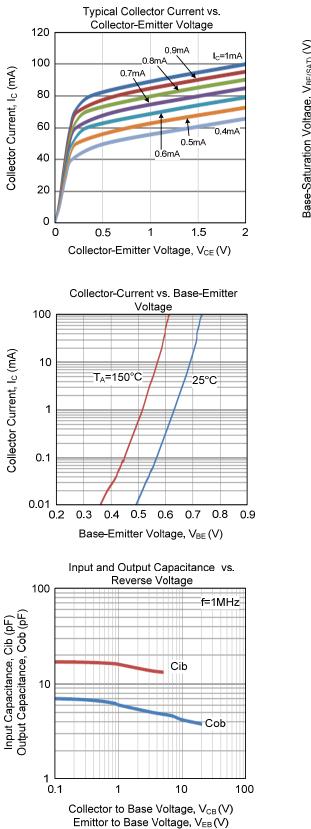
Note: Pulsed: $P_W \le 350\mu s$, Duty Cycle $\le 2\%$.

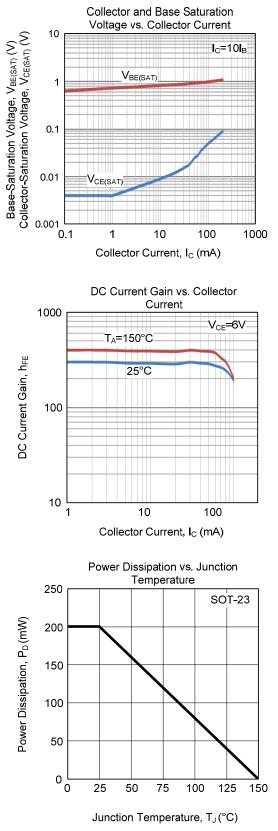
CLASSIFICATION OF h_{FE}

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



TYPICAL CHARACTERISTICS





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