

DESCRIPTION

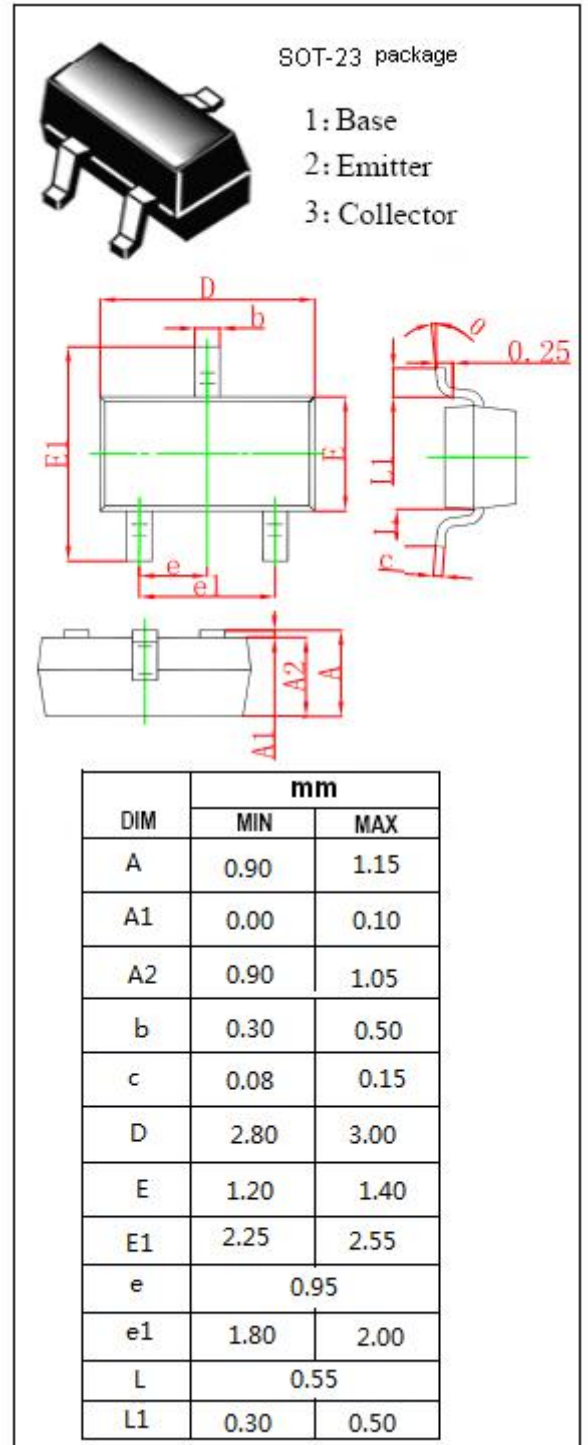
- SOT-23 plastic-encapsulate transistors
- High DC current gain: $h_{FE}=200$ (TYP)
@ $V_{CE} = 6V, I_C = 1mA$
- High voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio frequency general purpose amplifier

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_C	Collector Current-Continuous	0.1	A
P_C	Collector Power Dissipation @ $T_c=25^{\circ}C$	0.2	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$



isc Silicon NPN Transistor
2SC1623
ELECTRICAL CHARACTERISTICS

 T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I _{CB0}	Collector Cutoff Current	V _{CB} = 60V; I _E = 0			0.1	μ A
I _{EB0}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	μ A
h _{FE}	DC Current Gain	I _C = 1mA ; V _{CE} = 6V	90		600	
f _T	Current-Gain—Bandwidth Product	I _C = 10mA ; V _{CE} = 6V		250		MHz
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 100mA; I _B = 10mA			0.3	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 100mA; I _B = 10mA			1.0	V

◆ h_{FE} Classification

Class	L4	L5	L6	L7
Marking	L4	L5	L6	L7
h _{FE}	90-180	135-270	200-400	300-600

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