

DESCRIPTION

- SOT-23 plastic-encapsulate transistors
- High DC current gain: $h_{FE}=200$ (TYP)
@ $V_{CE} = -1V$, $I_C = -100mA$
- Complementary to 2SD596
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for audio frequency general purpose amplifier

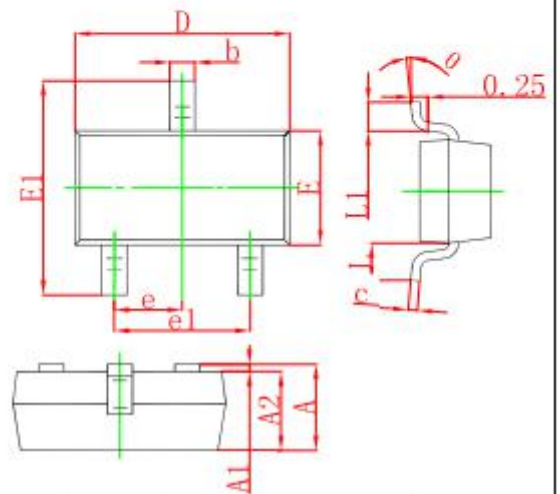
ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-0.7	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	$^\circ C$



SOT-23 package

- 1: Base
2: Emitter
3: Collector



DIM	mm	
	MIN	MAX
A	0.90	1.15
A1	0.00	0.10
A2	0.90	1.05
b	0.30	0.50
c	0.08	0.15
D	2.80	3.00
E	1.20	1.40
E1	2.25	2.55
e	0.95	
e1	1.80	2.00
L	0.55	
L1	0.30	0.50

isc Silicon PNP Transistor

2SB624

ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I _{CBO}	Collector Cutoff Current	V _{CB} = -30V; I _E = 0			-0.1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.1	μ A
h _{FE-1}	DC Current Gain	I _C = -100mA ; V _{CE} = -1V	110		400	
h _{FE-2}	DC Current Gain	I _C = -700mA ; V _{CE} = -1V	50			
f _T	Current-Gain—Bandwidth Product	I _C = -10mA ; V _{CE} = -6V		160		MHz
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -700mA; I _B = -70mA			-0.6	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -10mA; V _{CE} = -6V	-0.6		-0.7	V

◆ h_{FE-1} Classification

Marking	BV1	BV2	BV3	BV4	BV5
h _{FE}	110-180	135-220	170-270	200-320	250-400

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