

# **isc** Silicon PNP Transistor

2SB624

### **DESCRIPTION**

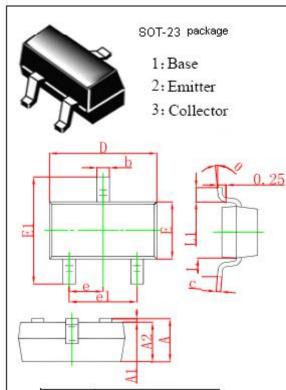
- SOT-23 plastic-encapsulate transistors
- High DC current gain:h<sub>FE</sub>=200(TYP)
  @V<sub>CE</sub> = -1V, I<sub>C</sub> = -100mA
- Complementary to 2SD596
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



• Designed for audio frequency general purpose amplifier

# ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-30	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-25	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-0.7	А
Pc	Collector Power Dissipation @T <sub>C</sub> =25°C	0.2	W
TJ	Junction Temperature	150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$ C



	mm		
DIM	MIN	MAX	
Α	0.90	1.15	
A1	0.00	0.10	
A2	0.90	1.05	
b	0.30	0.50	
с	0.08	0.15	
D	2.80	3.00	
Ε	1.20	1.40	
E1	2.25	2.55	
е	0.95		
e1	1.80	2.00	
L	0.55		
L1	0.30	0.50	



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#### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -30V; I <sub>E</sub> = 0			-0.1	μА
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-0.1	μА
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -100mA ; V <sub>CE</sub> = -1V	110		400	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -700mA ; V <sub>CE</sub> = -1V	50			
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>C</sub> = -10mA ; V <sub>CE</sub> =- 6V		160		MHz
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -700mA; I <sub>B</sub> = -70mA			-0.6	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> =-10mA; V <sub>CE</sub> = -6V	-0.6		-0.7	V

## ♦ h<sub>FE-1</sub> Classification

Marking	BV1	BV2	BV3	BV4	BV5
h <sub>FE</sub>	110-180	135-220	170-270	200-320	250-400

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