



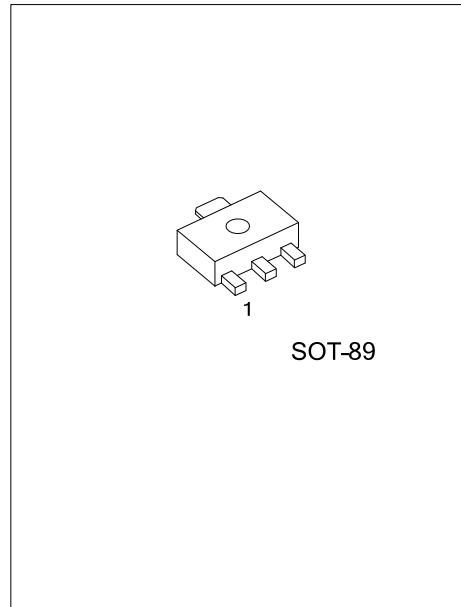
2SB766A

PNP SILICON TRANSISTOR

LOW FREQUENCY OUTPUT AMPLIFICATION

FEATURES

- * Large collector power dissipation P_c .
- * Mini Power type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.



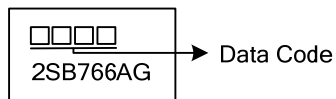
ORDERING INFORMATION

Order Number	Package	Pin Assignment			Packing
		1	2	3	
2SB766AG-x-AB3-R	SOT-89	B	C	E	Tape Reel

Note: Pin Assignment: B: Base C: Collector E: Emitter

<p>2SB766AG-x-AB3-R</p>	<p>(1) R: Tape Reel</p> <p>(2) AB3: SOT-89</p> <p>(3) x: refer to Classification of h_{FE}</p> <p>(4) G: Halogen Free and Lead Free</p>
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MARKING



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FLYING 汎翔國際有限公司
www.flying1688.com

2SB766A

PNP SILICON TRANSISTOR

■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-1	A
Peak Collector Current	I_{CP}	-1.5	A
Collector Power Dissipation (Note 2)	P_C	1	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

Notes: 1. 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.

2. Printed circuit board :Copper foil area of 1cm² or more, and the board thickness of 1.7mm for the collector portion

■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

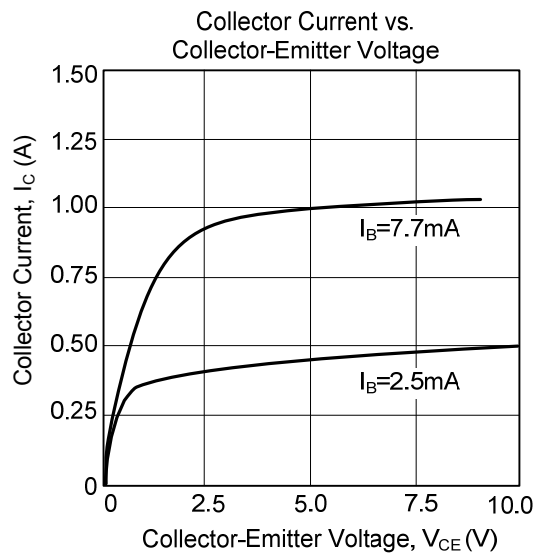
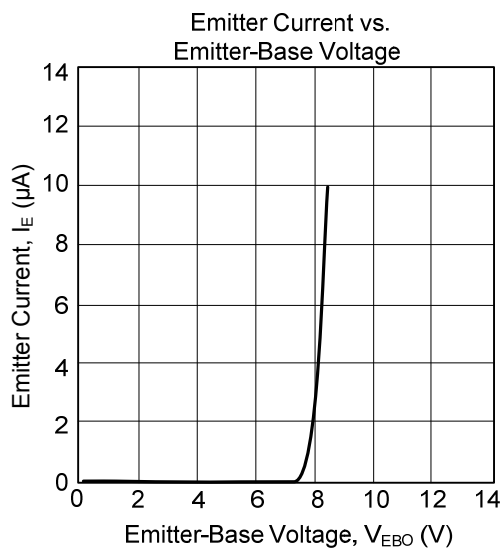
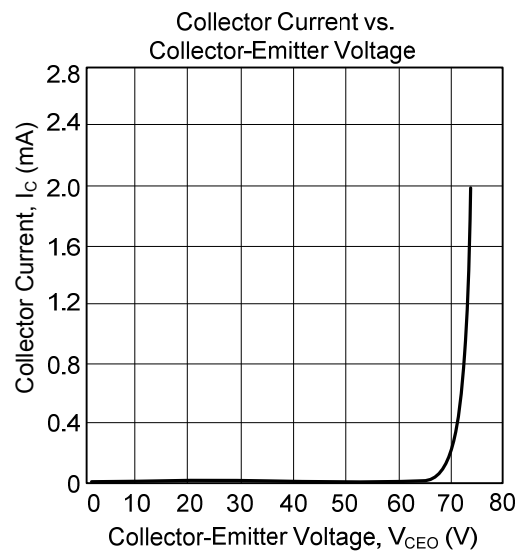
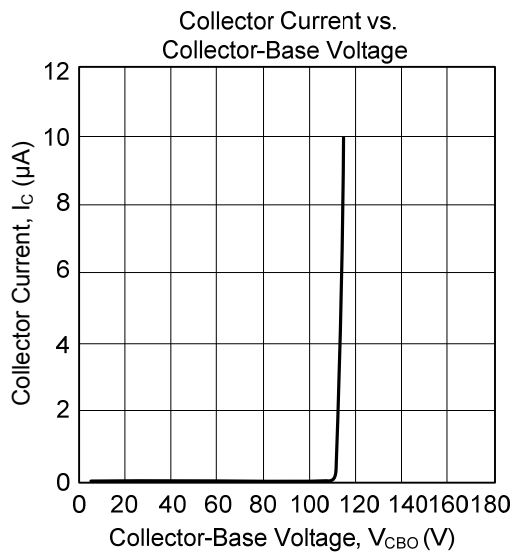
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Voltage	V_{CBO}	$I_C = -10\mu\text{A}$, $I_E = 0$	-60			V
Collector Emitter Voltage	V_{CEO}	$I_C = -2\text{mA}$, $I_B = 0$	-50			V
Emitter Base Voltage	V_{EBO}	$I_E = -10\mu\text{A}$, $I_C = 0$	-5			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -20\text{V}$, $I_E = 0$			-0.1	μA
DC Current Transfer Ratio	h_{FE1}	$V_{CE} = -10\text{V}$, $I_C = -500\text{mA}$ (Note)	85		340	
	h_{FE2}	$V_{CE} = -5\text{V}$, $I_C = -1\text{A}$ (Note)	50			
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C = -500\text{mA}$, $I_B = -50\text{mA}$ (Note)		-0.2	-0.4	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C = -500\text{mA}$, $I_B = -50\text{mA}$ (Note)		-0.85	-1.2	V
Transition Frequency	f_T	$V_{CB} = -10\text{V}$, $I_E = 50\text{mA}$, $f = 200\text{MHz}$		200		MHz
Output Capacitance	C_{OB}	$V_{CB} = -10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$		20	30	pF

Note: Pulse measurement

■ CLASSIFICATION OF h_{FE1}

RANK	Q	R	S
RANGE	85-170	120-240	170-340

TYPICAL CHARACTERISTICS



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