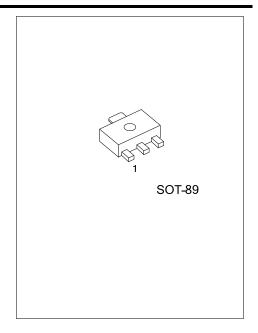
2SB766A

PNP SILICON TRANSISTOR

LOW FREQUENCY OUTPUT **AMPLIFICATION**

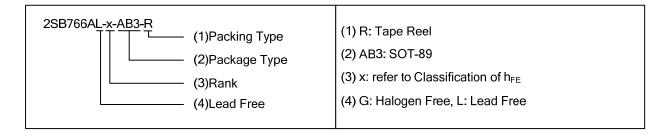
FEATURES

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



ORDERING INFORMATION

Ordering	Number	Dookogo	Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing
2SB766AL-x-AB3-R	2SB766AG-x-AB3-R	SOT-89	В	С	Е	Tape Reel



www.unisonic.com.tw 1 of 3 QW-R204-028.B

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

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	Ic	-1	Α
Peak Collector Current	I _{CP}	-1.5	Α
Collector Power Dissipation (Note 2)	Pc	1	W
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-55 ~ + 150	°C

Note: 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.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

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

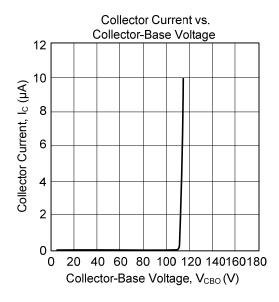
Note: Pulse measurement

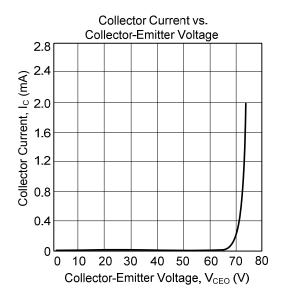
■ CLASSIFICATION OF h_{FE1}

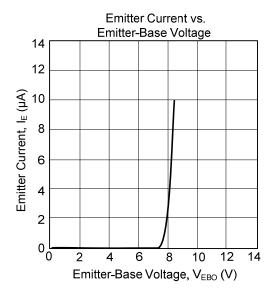
RANK	Q	R	S
RANGE	85-170	120-240	170-340

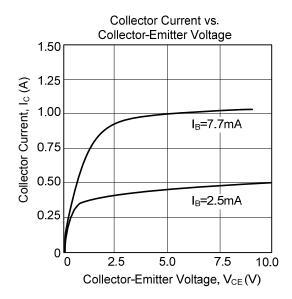
^{2.} Printed circuit board :Copper foil area of 1cm2 or more, and the board thickness of 1.7mm for the collector portion

■ TYPICAL CHARACTERISTICS









UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.