



# 2SB1260

## PNP SILICON TRANSISTOR

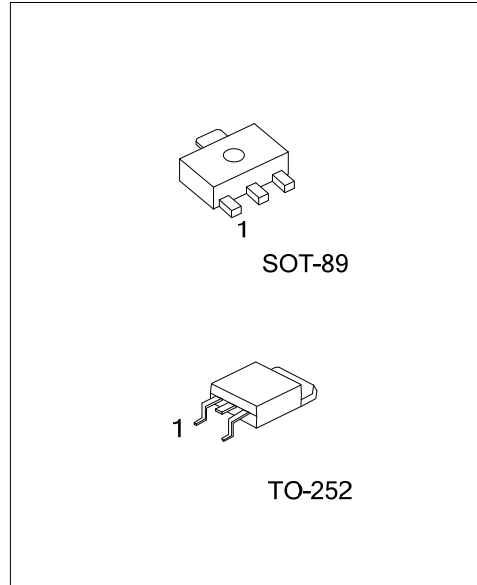
### POWER TRANSISTOR

#### DESCRIPTION

The UTC **2SB1260** is a epitaxial planar type PNP silicon transistor.

#### FEATURES

- \* High breakdown voltage and high current.  
 $BV_{CEO} = -80V, I_C = -1A$
- \* Good  $h_{FE}$  linearity.
- \* Low  $V_{CE(SAT)}$



Lead-free: 2SB1260L  
 Halogen-free: 2SB1260G

#### ORDERING INFORMATION

Ordering Number			Package	Pin Assignment			Packing
Normal	Lead Free	Halogen Free		1	2	3	
2SB1260-x-AB3-R	2SB1260L-x-AB3-R	2SB1260G-x-AB3-R	SOT-89	B	C	E	Tape Reel
2SB1260-x-TN3-R	2SB1260L-x-TN3-R	2SB1260G-x-TN3-R	TO-252	B	C	E	Tape Reel

<p>2SB1260L-x-AB3-R</p>	<p>(1)Packing Type        (2)Package Type        (3)Rank        (4)Lead Plating</p>	<p>(1) R: Tape Reel        (2) AB3: SOT-89, TN3: TO-252        (3) refer to Classification of <math>h_{FE}</math>        (4) G: Halogen Free, L: Lead Free, Blank: Pb/Sn</p>
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■ ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector -Base Voltage	V <sub>CB0</sub>	-80	V
Collector -Emitter Voltage	V <sub>CEO</sub>	-80	V
Emitter -Base Voltage	V <sub>EBO</sub>	-5	V
Peak Collector Current (single pulse, Pw=100ms)	I <sub>CM</sub>	-2	A
DC Collector Current	I <sub>C</sub>	-1	A
Power Dissipation	SOT-89	0.5	W
	TO-252	1.9	W
Junction Temperature	T <sub>J</sub>	+150	°C
Storage Temperature	T <sub>STG</sub>	-40 ~ +150	°C

Note 1. Printed circuit board, 1.7mm thick, collector copper plating 100mm<sup>2</sup> or larger.

2. 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 (Ta= 25°C, unless otherwise specified)

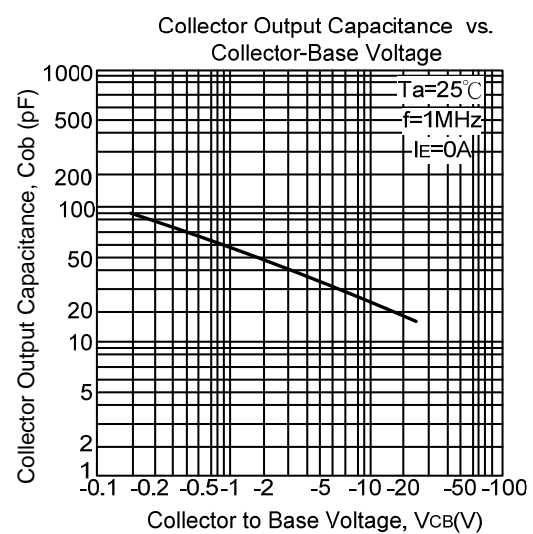
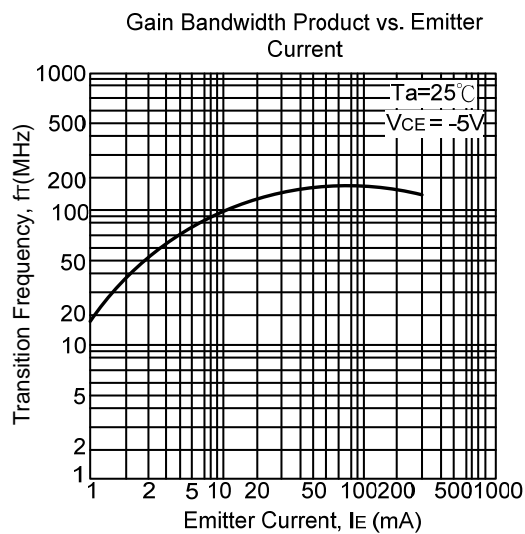
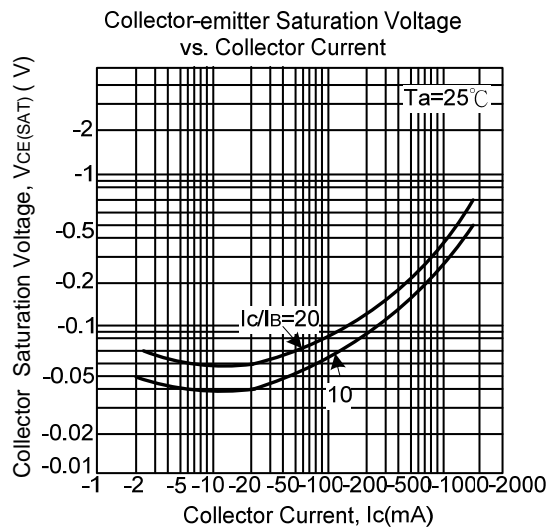
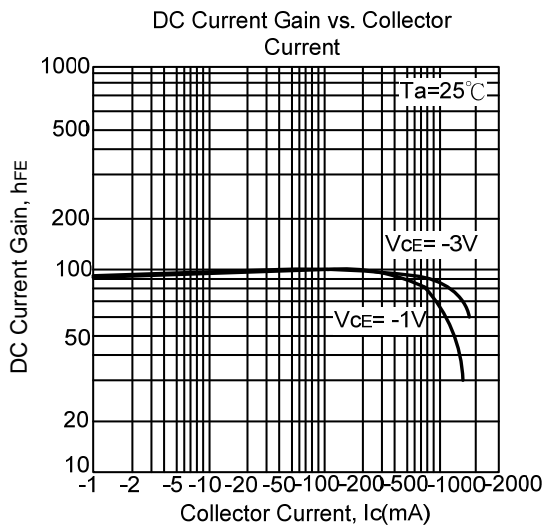
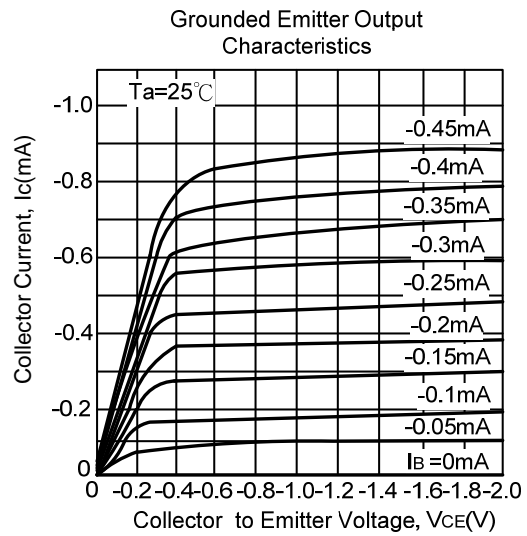
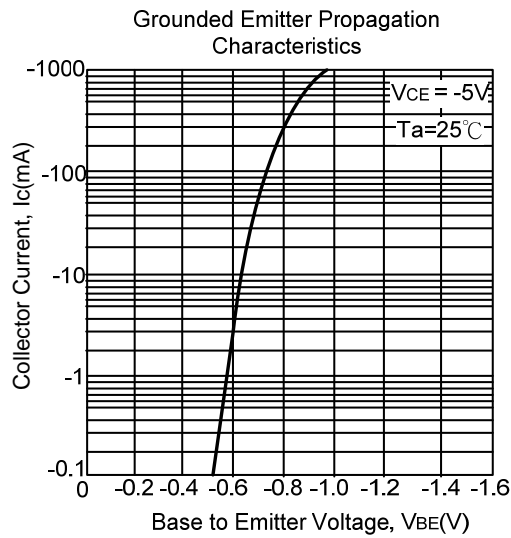
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	BV <sub>CB0</sub>	I <sub>C</sub> = -50 μA	-80			V
Collector Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> = -1mA	-80			V
Emitter Base Breakdown Voltage	BV <sub>EBO</sub>	I <sub>E</sub> = -50 μA	-5			V
Collector Cut-Off Current	I <sub>CB0</sub>	V <sub>CB</sub> =-60V			-1	μA
Emitter Cut-Off Current	I <sub>EBO</sub>	V <sub>EB</sub> =-4V			-1	μA
DC Current Gain(Note 1)	h <sub>FE</sub>	V <sub>CE</sub> =-3V, I <sub>OUT</sub> =-0.1A	82		390	
Collector-Emitter Saturation Voltage	V <sub>CE(SAT)</sub>	I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA			-0.4	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> = -5V, I <sub>E</sub> =50mA, f=30MHz		100		MHz
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz		25		pF

Note 1: Pulse test: P<sub>w</sub><300μs, Duty Cycle<2%

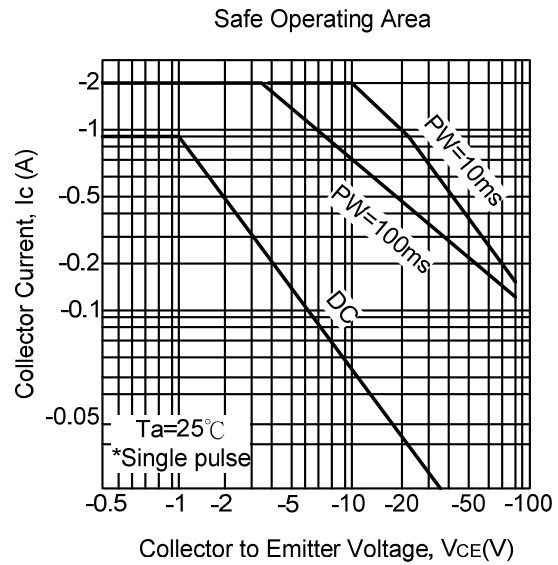
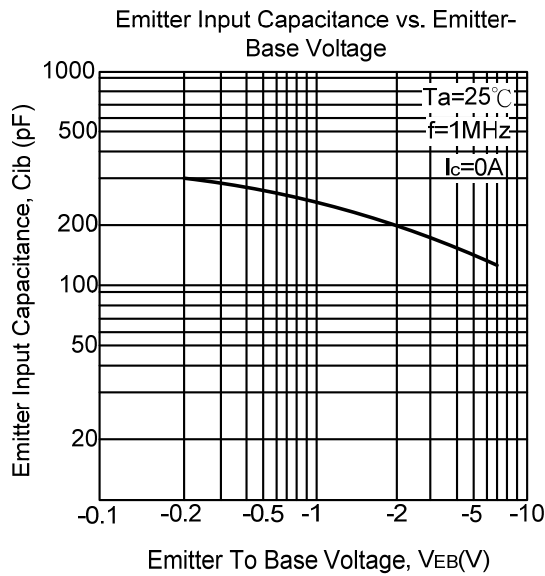
■ CLASSIFICATION OF h<sub>FE</sub>

RANK	P	Q	R
RANGE	82 ~ 180	120 ~ 270	180 ~ 390

## TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS(Cont.)



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