



SANYO Semiconductors

DATA SHEET

2SA1179N / 2SC2812N — Low-Frequency General-Purpose Amp Applications

PNP / NPN Epitaxial Planar Silicon Transistors

Features

- Miniature package facilitates miniaturization in end products.
- High breakdown voltage.

Specifications () : 2SA1179N

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CB0}		(-)55	V
Collector-to-Emitter Voltage	V _{CEO}		(-)50	V
Emitter-to-Base Voltage	V _{EB0}		(-)5	V
Collector Current	I _C		(-)150	mA
Collector Current (Pulse)	I _{CP}		(-)300	mA
Base Current	I _B		(-)30	mA
Collector Dissipation	P _C		200	mW
Junction Temperature	T _J		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

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Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)35V, I _E =0A			(-)0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0A			(-)0.1	μA
DC Current Gain	h _{FE}	V _{CE} =(-)6V, I _C =(-)1mA	200		400	
Gain-Bandwidth Product	f _T	2SC2812N : V _{CE} =6V, I _C =1mA		100		MHz
		2SA1179N : V _{CE} =-6V, I _C =-10mA		(180)		MHz
Output Capacitance	C _{ob}	V _{CB} =(-)6V, f=1MHz		(4.0)3.0		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)50mA, I _B =(-)5mA		(-0.15)0.1	(-)0.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)50mA, I _B =(-)5mA			(-)1.0	V
Collector-to-Base Breakdown Voltage	V _{(BR)CBO}	I _C =(-)10μA, I _E =0A	(-)55			V
Collector-to-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =(-)1mA, R _{BE} =∞	(-)50			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =(-)10μA, I _C =0A	(-)5			V

Marking : 2SA1179N : M / 2SC2812N : L

* : The 2SA1179N / 2SC2812N are classified by 1mA h_{FE} as follows:

Rank	6
h _{FE}	200 to 400

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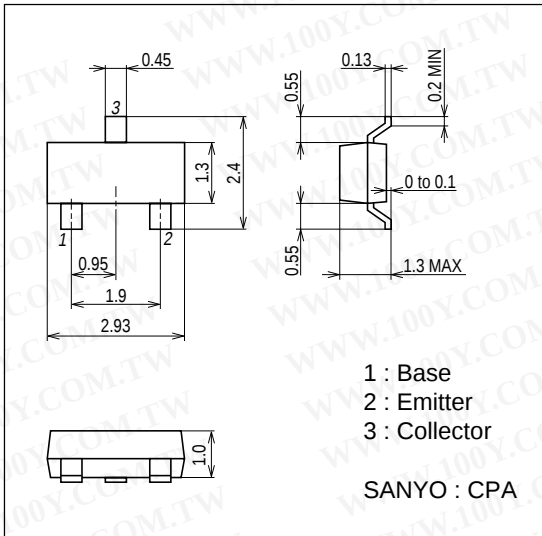
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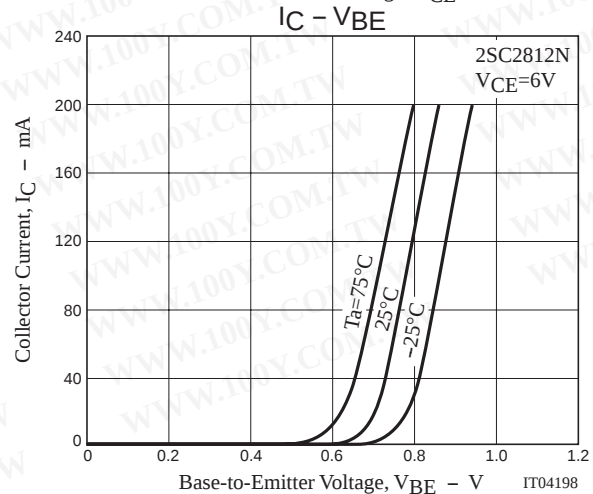
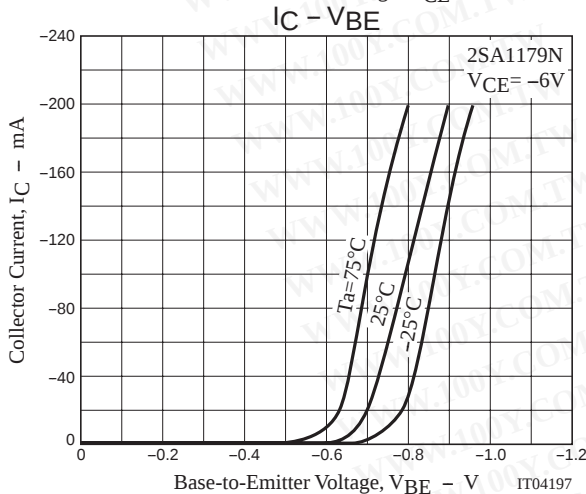
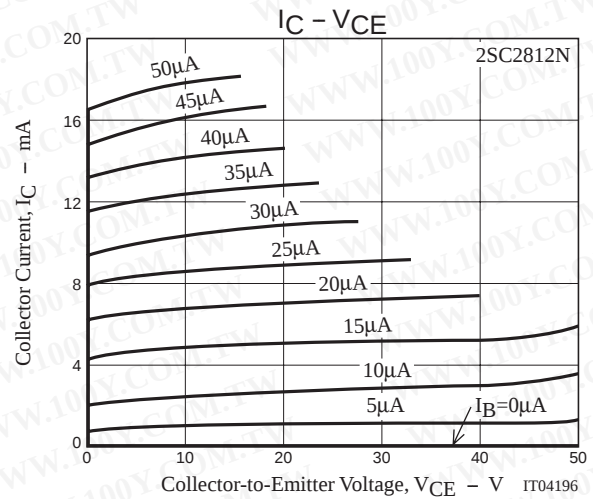
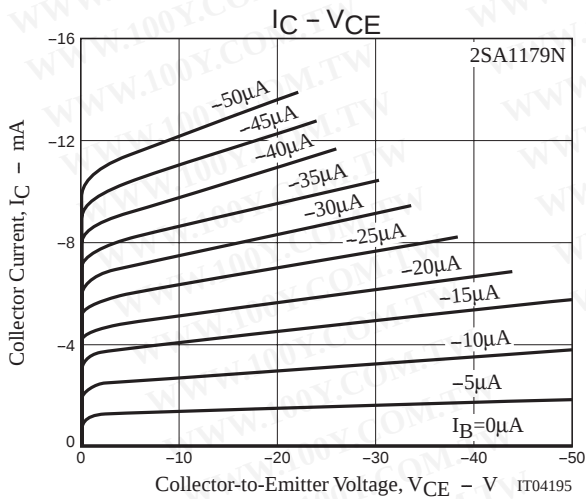
Package Dimensions

unit : mm (typ)

7053-001

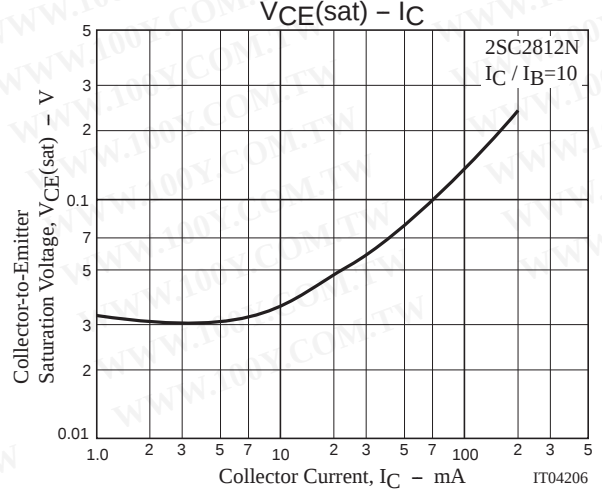
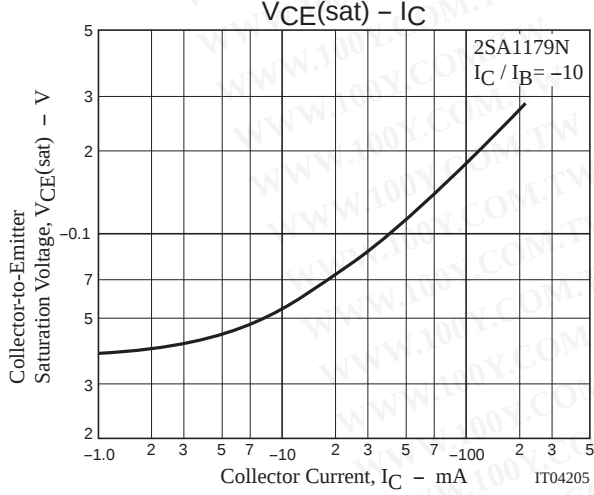
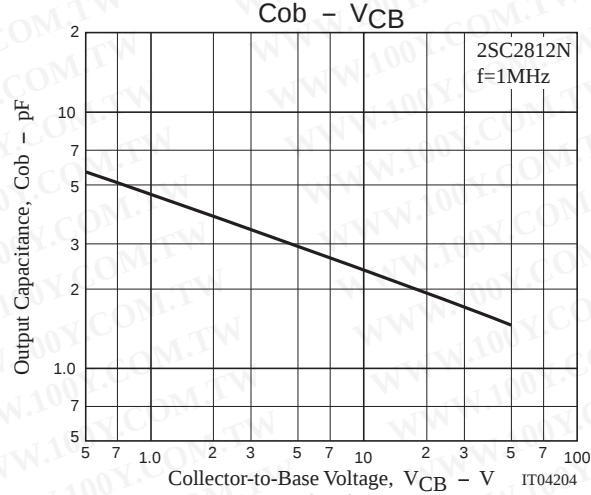
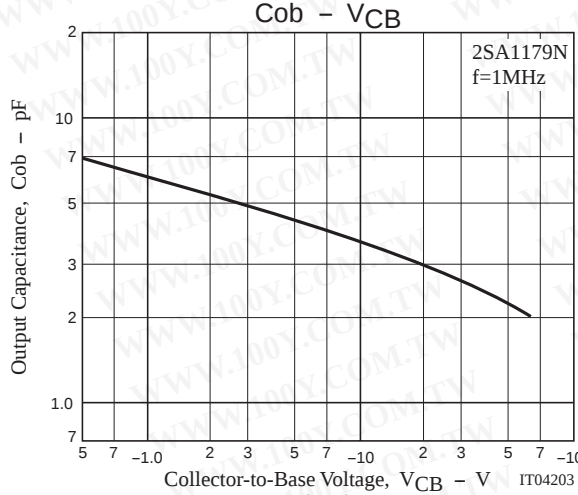
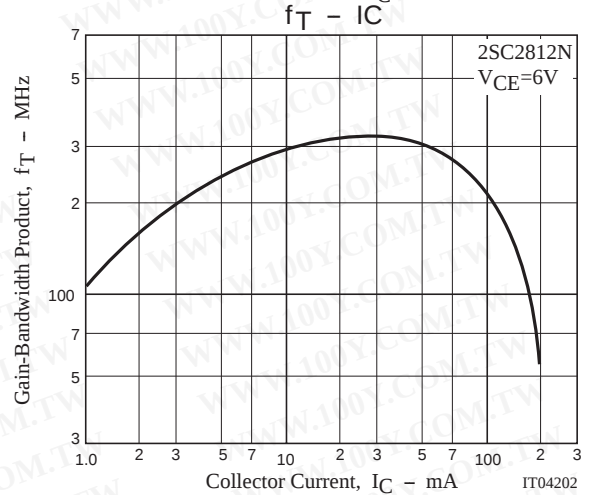
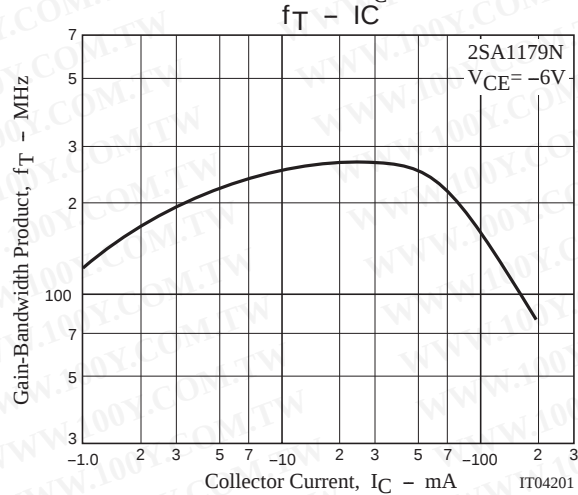
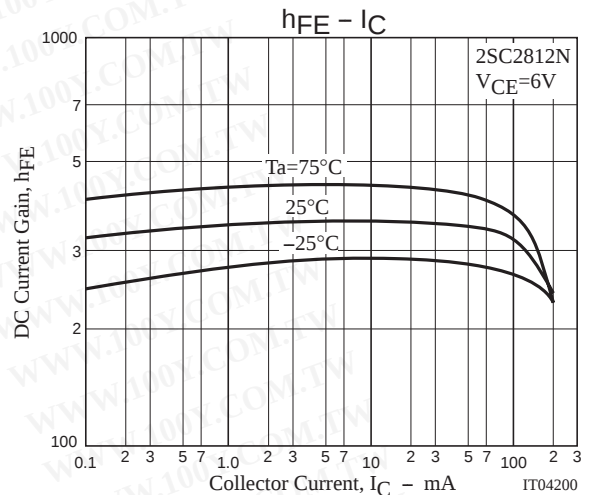
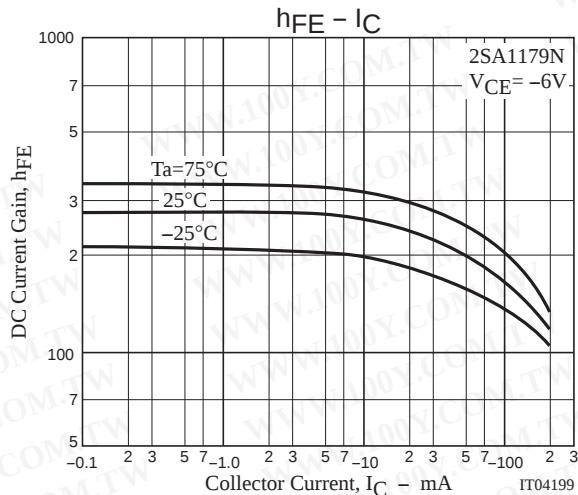


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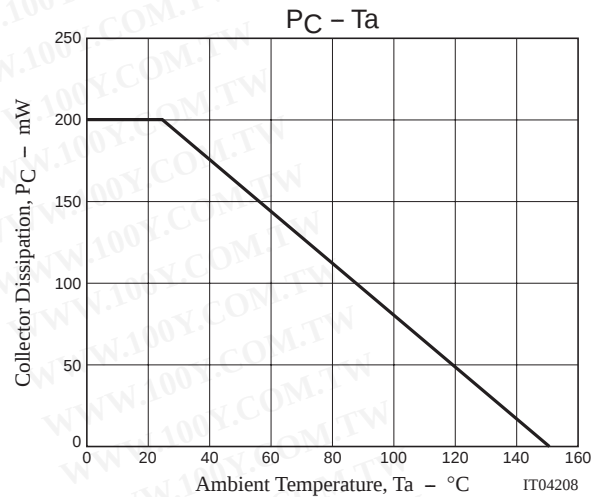
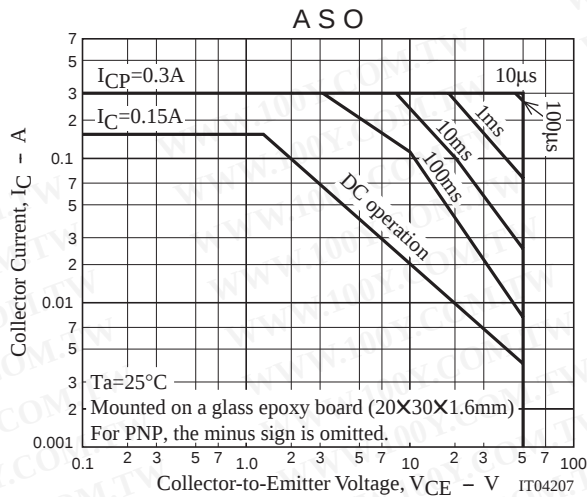


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