2SA1210



T-27-21

PNP/<sub>NPN</sub> Epitaxial Planar Silicon Transistors

2SC2912

# High Voltage Switching, AF 150W Predriver Applications

## ©780C

- Features
   Adoption of FBET process
  - · High breakdown voltage
  - Good linearity of hee and small cob
  - Fast switching speed

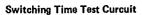
#### ( ): 2SA1210

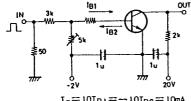
Absolute Maximum Ratings/ $T_a = 25^{\circ}C$				unit
Collector to base voltage	VCBO		(-)200	V
Collector to emitter voltage	VCEO		()200	٧
Emitter to base voltage	VEBO		(—)5	V
Collector current	lc		()140	mΑ
Peak collector current	i <sub>cp</sub>		()200	mΑ
Collector dissipation	PĊ		1	W
·	_	T <sub>C</sub> = 25°C	10	W
Junction temperature	Ti	-	150	°C
Storage temperature	$T_{stg'}$		<b>55 ∼</b> +150	°C
•	3		4.1	No.

Electrical Characteristics/T <sub>a</sub> = 25°C Collector cutoff current Emitter cutoff current Common emitter DC current gain	ICBO IEBO hee	VCB = (-)160, IE = 0 VEB = (-)4 V, IC = 0 VCF = (-)5 V, IC = (-) 10 mA	min typ max ()0.1 ()0.1 100* 400*	unit μΑ μΑ
Gain band-width product	fT	$V_{CE} = (-)10 \text{ V, IC} = (-) 10 \text{ mA}$	150	MHz
Common base output capacitance	cob	VCB = (-)10 V, f = 1 MHz	(4.0)	рF
Collector to emitter saturation voltage	VCE(sat)	$1_{C} = (-)50 \text{ mA}, 1_{B} = (-)5 \text{ mA}$	3.0 (-0.14) (-0.4) 0.07 0.3	٧
Turn-on time	Ton	At specified test circuit	0.1	μs
Storage time	t <sub>stq</sub>	At specified test circuit	1.5	$\mu$ s
Fall time	tf	At specified test circuit	0.1	μs

<sup>\*:</sup> The 2SA1210/2SC2912 are classified by 10 mA here as follows:

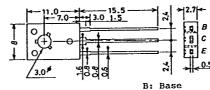
100	R	200	140	s	280	200	Т	400	





 $I_C = 10I_{B1} = -10I_{B2} = 10mA$  (For PNP, the polarity is reversed.)

## Case Outline 2009A (unit: mm)



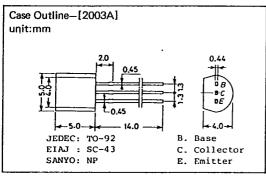
JEDEC: TO-126 B: Base C: Collector E: Emitter

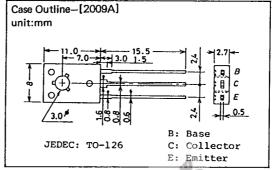
For details, refer to the description of the 2SC2912.

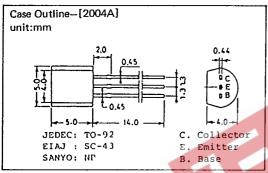
3187AT/3135KI/0193Ki, TS 4 No. 780-1/3

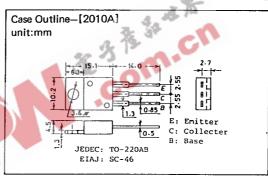
## CASE OUTLINES AND ATTACHMENTS

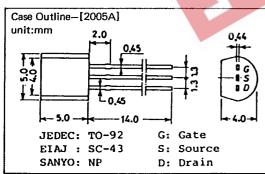
- •All of Sanyo Transistor case outlines are illustrated below.
- All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- ●No marking is indicated.

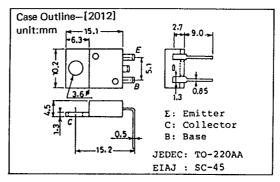


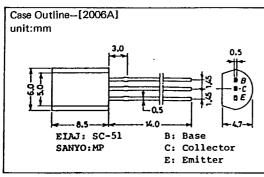


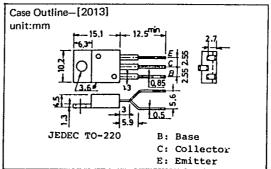








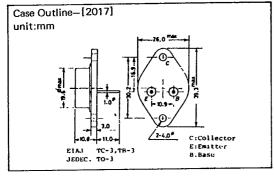


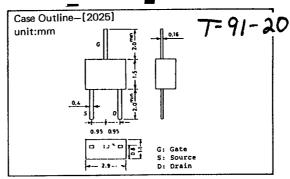


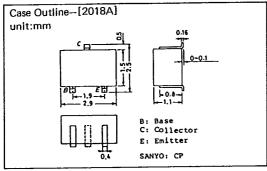
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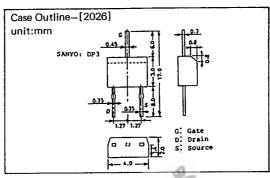


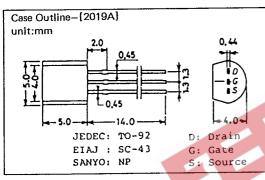
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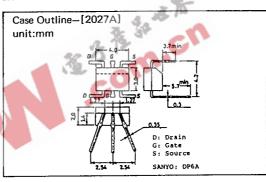


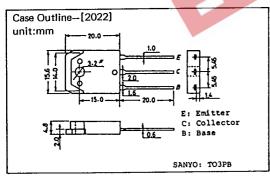


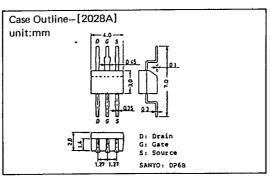


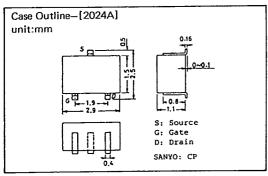


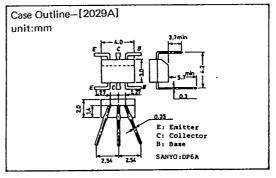


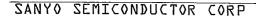






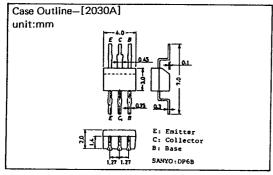


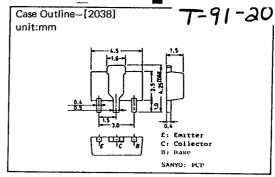


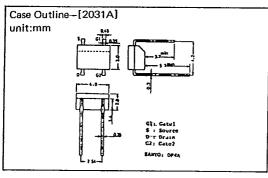


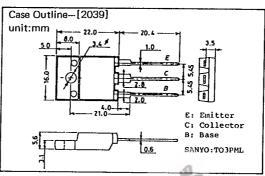
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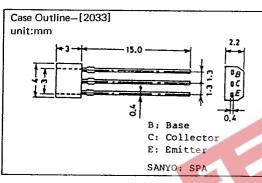
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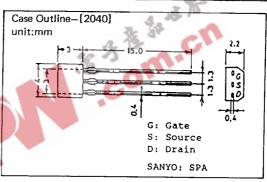


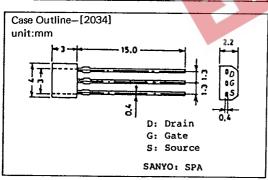


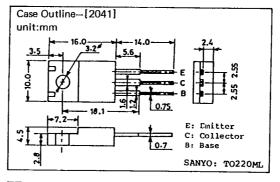


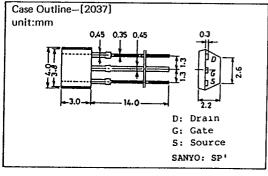


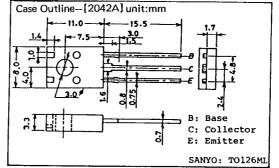






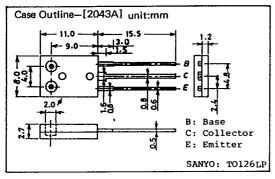


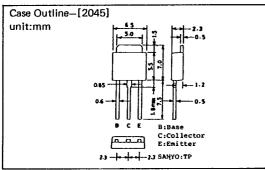


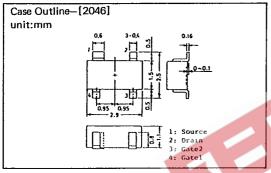


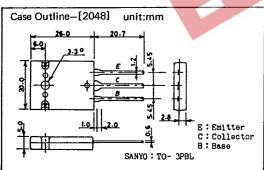
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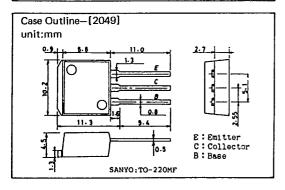


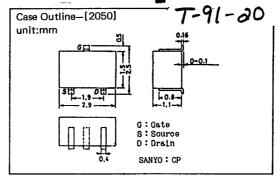


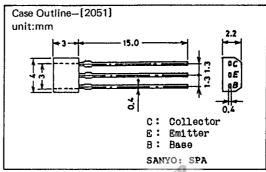


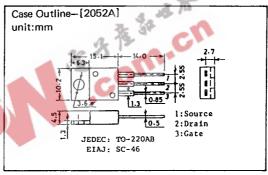


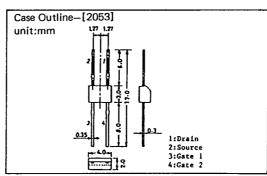


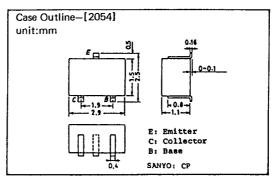






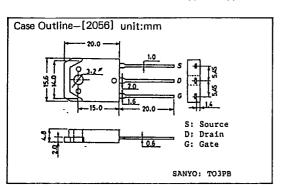


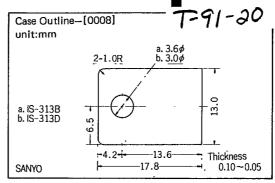


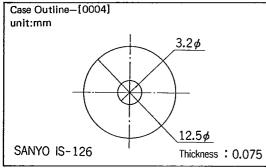


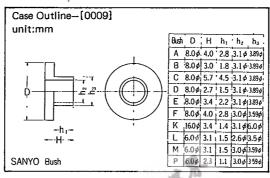
## SANYO SEMICONDUCTOR CORP

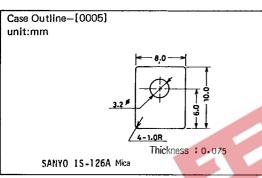
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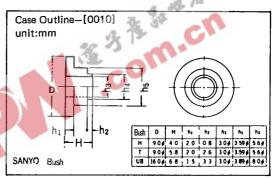


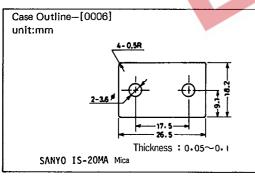


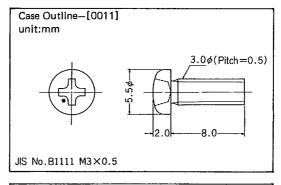


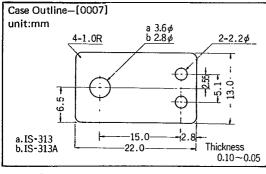


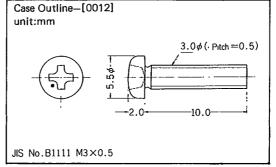












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