2SD1912



T-33-09

NPN Epitaxial Planar Silicon Transistor

## Low Frequency Power Amp Applications

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## **Features**

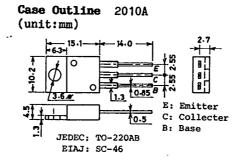
- . Wide ASO (adoption of MBIT process)
- . Low saturation voltage
- . High reliability

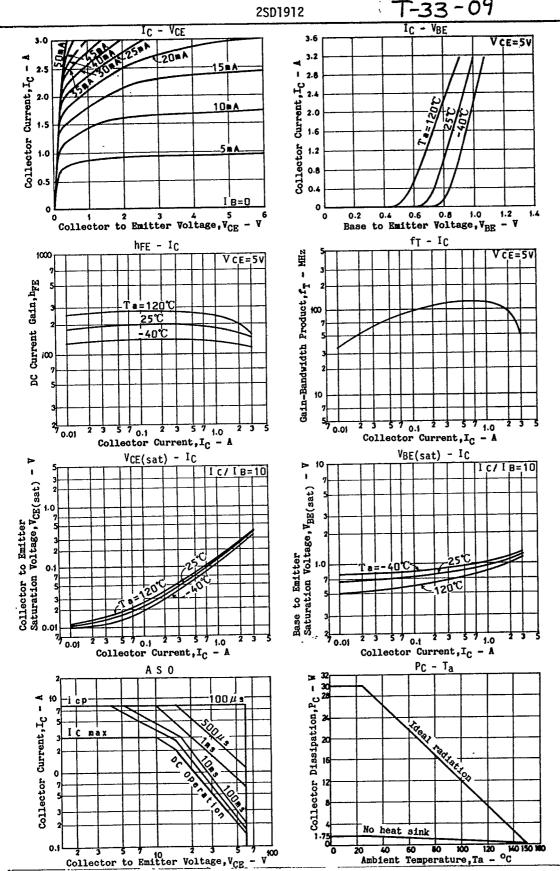
Absolute Maximum Ratings at Ta=250	C				unit
Collector to Base Voltage	V <sub>CBO</sub>			60	v
Collector to Emitter Voltage					Y
	V <sub>CEO</sub>			60	V
Emitter to Base Voltage	VEBO			6	v
Collector Current	IC			3	A
Peak Collector Current	icp			8	A
Collector Dissipation	PC			1.75	W
		Tc=25 <sup>O</sup> C		30	W
	Тj			150	°C
Storage Temperature	Tstg		<b>-</b> 55 to	+150	oc

Blectrical Characteristics at	Ta=25 <sup>O</sup> C		min	typ	max	unit
Collector Cutoff Current	I <sub>CBO</sub>	$V_{CB}=40V,I_{E}=0$			100	uA
Emitter Cutoff Current	I <sub>EBO</sub>	$V_{EB} = 4V, I_{C} = 0$			100	uA
DC Current Gain	hFE(1)	$V_{CE} = 5V, I_{C} = 0.5A$	70 <b>=</b>		280 <del>=</del>	un
<b>a. t</b>	hFE(2)	$V_{CE} = 5V, I_{C} = 3A$	20			
Gain-Bandwidth .Product	$\mathbf{f}_{\mathbf{T}}$	$V_{CE}=5V,I_{C}=0.5A$		100		MHz
Output Capacitance	c <sub>ob</sub>	VCB=10V, f=1MHz		40		pF
C-E Saturation Voltage	VCE(sat)	$I_{C}=2A$ , $I_{R}=0.2A$		0.4	1	v
page to umriter Aortage	V <sub>BE</sub>	$V_{CE}=5V, T_{C}=0.5A$		0.8	1	V
C-B Breakdown Voltage	V(BR)CBO	$I_{C} = 1 \text{mA}, I_{E} = 0$	60			V
C-D DIESTONII ACTURE	V(BR)CEO	$I_{C}=5mA$ , $R_{BE}=\infty$	60			v
E-B Breakdown Voltage	V(BR)EBO	$I_E = 1 \text{ mA}, I_C = 0$	6			V

\*: The 2SD1912 is classified by 0.5A  $h_{\mbox{\scriptsize FE}}$  as follows:

70 Q 140 | 100 R 200 | 140 S 280

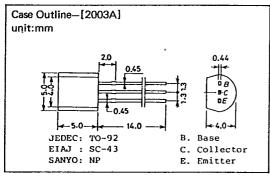


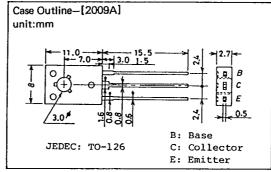


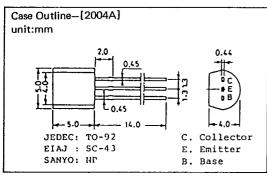
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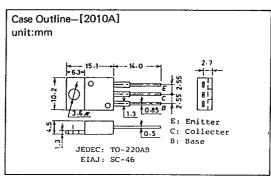
## CASE OUTLINES AND ATTACHMENTS

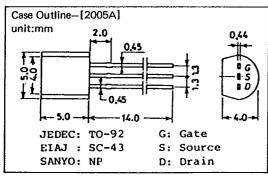
- All of Sanyo Transistor case outlines are illustrated below.
- All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- ●No marking is indicated.

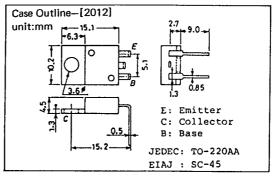


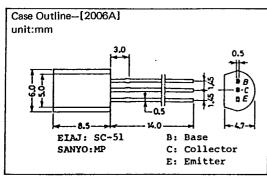


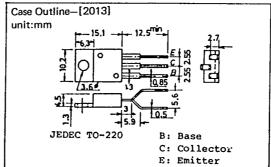


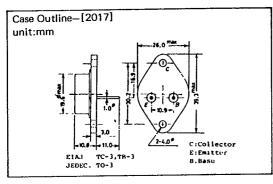


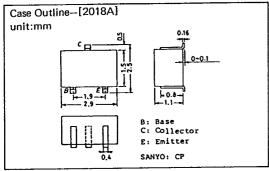


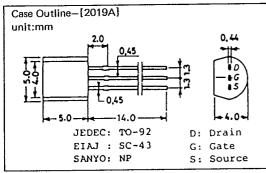


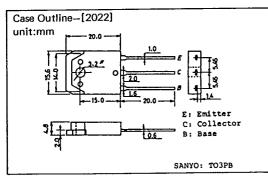


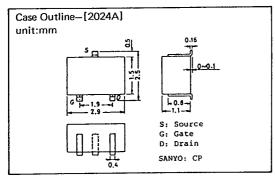


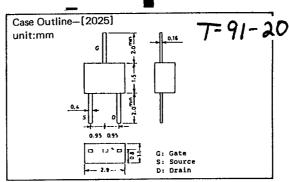


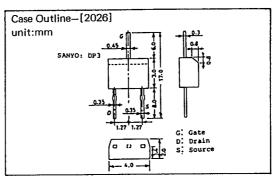


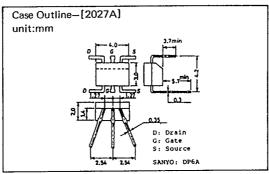


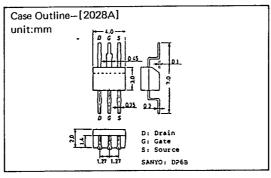


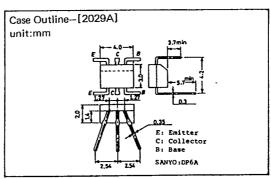


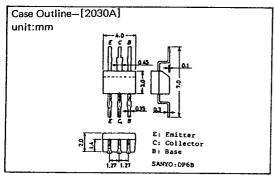


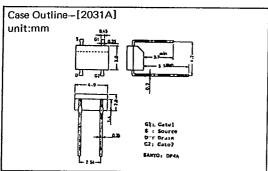


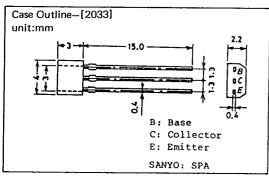


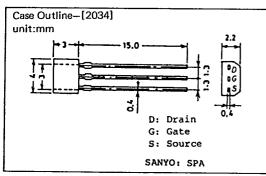


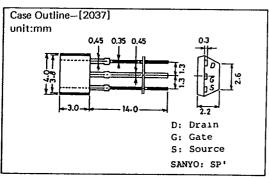


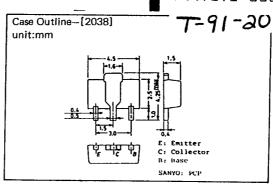


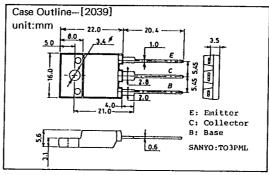


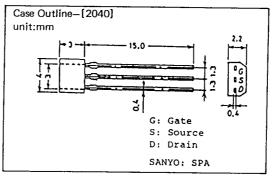


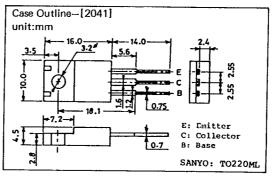


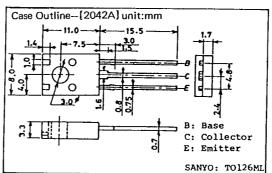


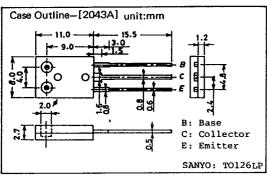


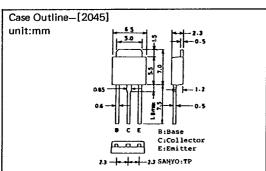


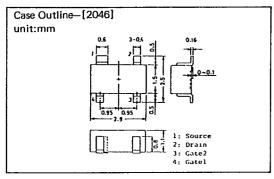


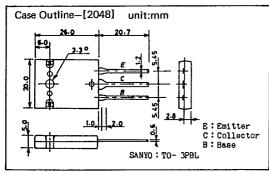


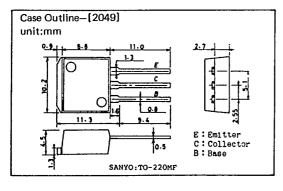


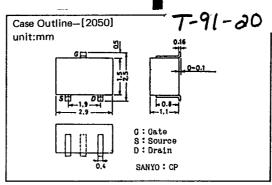


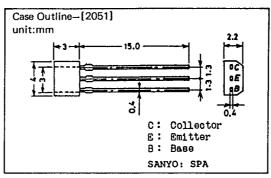


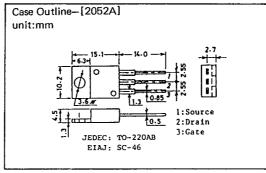


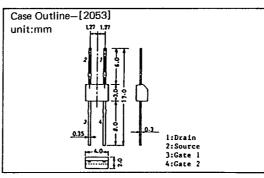


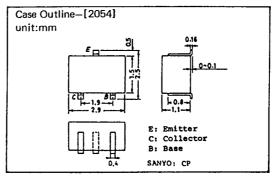


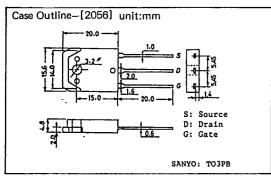


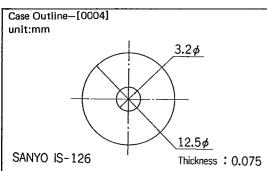


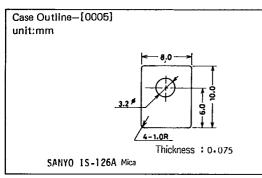


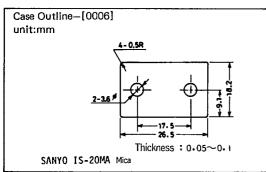


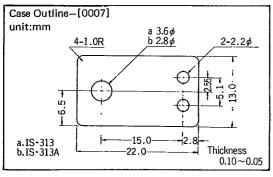


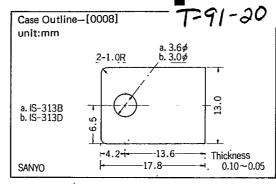


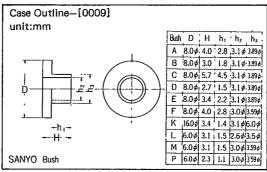


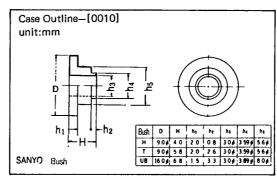


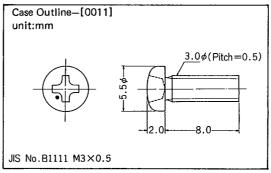


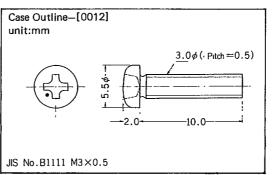


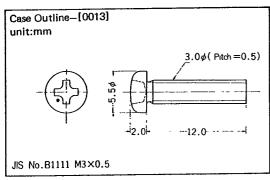


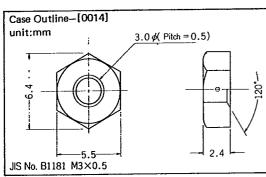


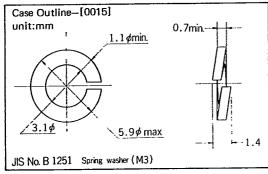


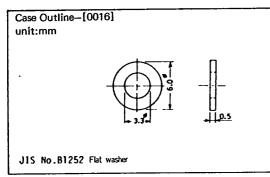


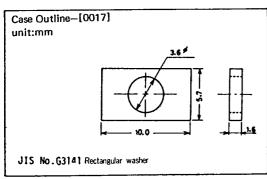


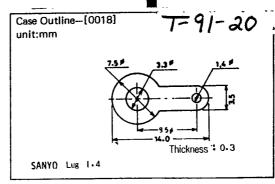


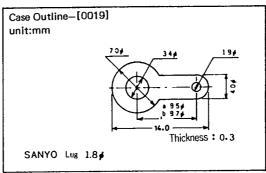


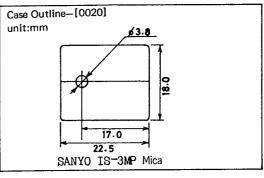


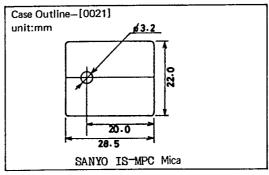


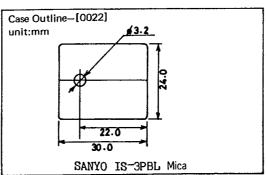












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