SANYO SEMICONDUCTOR COL 查询2SC930供应商	RP	建多并	。 , 是 业 PCB 封 程	日子与24月6月加速出货 8
2SC930	F10	D.COM	Τ-	-31-15 -31-17
- LE FE WY	2033	2003A	NPN Epitaxial Silicon Tra	Planar
	AM	Converter,		
©545E			pplicati	
The 2SC930 has two types of packge: SPA and NP.				
Use				WWW.
• FM RF amp, mixer, OSC, c		and IF amplifier.		
Absolute Maximum Ratings at		2SC930SPA	25C9 30NP	unit
Collector to Base Voltage Collector to Emitter Volta	ge V _{CEO}	30 20	30	V
Emitter to Base Voltage	VEBO	20 5	20 5	V
Collector Current	IC	30	30	V mA
Collector Dissipation Junction Temperature	PC	120	250	mW
Storage Temperature	Tj ^T stg	125 -40 to +125 -55 f	125	°C
Electrical Characteristics at		-40 CO TIZO -55 1	to +125	°C
Collector Cutoff Current	ICBO		min typ	max unit
Emitter Cutoff Current	ICBO IEBO	V _{CB} =10V, I _E =0 V _{EB} =4V, I _C =0		1 uA 1 uA
DC Current Gain	h _{FE}	VCE=6V, IC=1mA	40* 80	1 uA 320*
Gain Bandwidth Product Reverse Transfer capacitanc	fT	VCE=6V, IC=1mA	170 300	MHz
 Leveloe Hanster capacitanc	e cre	$V_{CB}=6V$, $I_C=1MHz$ (2509)		1.6 pF
Base to Collector	rbb'cc	V _{CB} =6V, f=1MHz (2sc9 V _{CE} =6V, I _C =1mA	30NP)1.0 1.3 20	1.8 pF
Time Constant		f=31.9MHz	20	36 pS
Noise Figure	NF	VCE=6V, IC=1mA	4.0	dB
Turn-on Time	ton	f=100MHz V _{IN} =+12V,V _{BB} =-3V,	30	ns and
Turn-off Time	. .	appointed circuit	55	
	toff	V _{IN} =-12V,V _{BB} =+3V, appointed circuit	. 30	ns co
		appointed circuit		
<u>.</u>				WWWWWWWW
*The 2SC930 is graded as fo	llows by]			WWW.0ZSU
40 0 00 00 00 000	T	ImA hFE:		WWW.DL
*The 2SC930 is graded as fo 40 C 80 60 D 120	100 E	lmA h _{FE} :		WWW.OL
40 C 80 60 D 120	100 E	lmA h _{FE} :		WWW.DE
40 C 80 60 D 120 Case Outline 2033	100 E	lmA h _{FE} : 200 160 F 320 Case Outlin	ne 2003A	WWW.DE
40 C 80 60 D 120 Case Outline 2033 (unit:mm)	100 E	lmA h _{FE} :	ne 2003A	
40 C 80 60 D 120 Case Outline 2033	100 E	lmA h _{FE} : 200 160 F 320 Case Outlin	ne 2003A	0.44
40 C 80 60 D 120 Case Outline 2033 (unit:mm)	100 E	lmA h _{FE} : 200 160 F 320 Case Outlin	ne 2003A	
40 C 80 60 D 120 Case Outline 2033 (unit:mm)	100 E	lmA h _{FE} : 200 160 F 320 Case Outlin	ne 2003A	
40 C 80 60 D 120 Case Outline 2033 (unit:mm)	100 E	ImA h _{FE} : 200 160 F 320 Case Outlin (unit:mm) 20 11 11 11 11 11 11 11 11 11 1		
40 C 80 60 D 120 Case Outline 2033 (unit:mm) 15.0 15.0 17.0 17.0 11 15.0 15.0 17.0 17.0 17.0 12 13 15.0 15.0 17.0 17.0 13 15.0 15.0 15.0 17.0 17.0 13 15.0 15.0 15.0 17.0 17.0 14 15.0 15.0 15.0 17.0 17.0 15 15 15.0 15.0 17.0 17.0 15 15 15.0 15.0 17.0 17.0 15 15 15.0 15.0 17.0 17.0 16 17.0 15.0 15.0 17.0 17.0 17 18.0 18.0 10.0 10.0 10.0 10.0 17 18.0 19.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 <td>100 E</td> <td>lmA h_{FE}: 200 160 F 320 Case Outlin</td> <td></td> <td></td>	100 E	lmA h _{FE} : 200 160 F 320 Case Outlin		
40 C 80 60 D 120 Case Outline 2033 (unit:mm)	100 E	LmA h _{FE} : 200 160 F 320 Case Outlin (unit:mm) 20 10 10 10 10 10 10 10 10 10 1	0.45 - 14.0	0.44 ++- • C • C • C • C • C • C • C • C • C • C
40 C 80 60 D 120 Case Outline 2033 (unit:mm)	100 E	ImA h _{FE} : 200 160 F 320 Case Outlin (unit:mm) 20 10 10 10 10 10 10 10 10 10 1	0.45 0.45 14.0 2 B, Ba	0.44 ++- • C • C • C • C • C • C • C • C • C • C
40 C 80 60 D 120 Case Outline 2033 (unit:mm) B: Base C: Collecto E: Emitter	100 E	LmA h _{FE} : 200 160 F 320 Case Outlin (unit:mm) 20 10 10 10 10 10 10 10 10 10 1	0.45 - 14.0	0.44 ++- • C • C • C • C • C • C • C • C • C • C
40 C 80 60 D 120 Case Outline 2033 (unit:mm) B: Base C: Collecto E: Emitter SANYO: SPA	100 E	ImA hFE: 200 160 F 320 Case Outlin (unit:mm) 20 10 10 10 10 10 10 10 10 10 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ++- • C • C • C • C • C • C • C • C • C • C
40 C 80 60 D 120 Case Outline 2033 (unit:mm) Case Outline 2033 Case Outline 20	100 E	ImA hFE: 200 160 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 100 F 320 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ++- • C • C • C • C • C • C • C • C • C • C
40 C 80 60 D 120 Case Outline 2033 (unit:mm) B: Base C: Collecto E: Emitter SANYO: SPA	100 E	ImA hFE: 200 160 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 100 F 320 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ++- • C • C • C • C • C • C • C • C • C • C
40 C 80 60 D 120 Case Outline 2033 (unit:mm) Case Outline 2033 Case Outline 20	100 E	ImA hFE: 200 160 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 100 F 320 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ++- • C • C • C • C • C • C • C • C • C • C
40 C 80 60 D 120 Case Outline 2033 (unit:mm) Case Outline 2033 Case Outline 20	100 E	ImA hFE: 200 160 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 100 F 320 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ++- • C • C • C • C • C • C • C • C • C • C
40 C 80 60 D 120 Case Outline 2033 (unit:mm) Case Outline 2033 Case Outline 20	100 E	ImA h _{FE} : 200 160 F 320 Case Outlin (unit:mm) 20 10 10 10 10 10 10 10 10 10 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ***********************************
40 C 80 60 D 120 Case Outline 2033 (unit:mm) ***********************************	100 E	ImA hFE: 200 160 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 Case Outlin (unit:mm) 20 100 F 320 100 F 320 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ***********************************
40 C 80 60 D 120 Case Outline 2033 (unit:mm) Case Outline 2033 Case Outline 20	100 E	ImA h _{FE} : 200 160 F 320 Case Outlin (unit:mm) 20 10 10 10 10 10 10 10 10 10 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ***********************************
40 C 80 60 D 120 Case Outline 2033 (unit:mm) ***********************************	100 E	ImA h _{FE} : 200 160 F 320 Case Outlin (unit:mm) 20 10 10 10 10 10 10 10 10 10 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ***********************************
40 C 80 60 D 120 Case Outline 2033 (unit:mm) ***********************************	100 E	ImA h _{FE} : 200 160 F 320 Case Outlin (unit:mm) 20 10 10 10 10 10 10 10 10 10 1	0.45 0.45 14.0 B, Ba 3 C. Co E. Em	0.44 ***********************************

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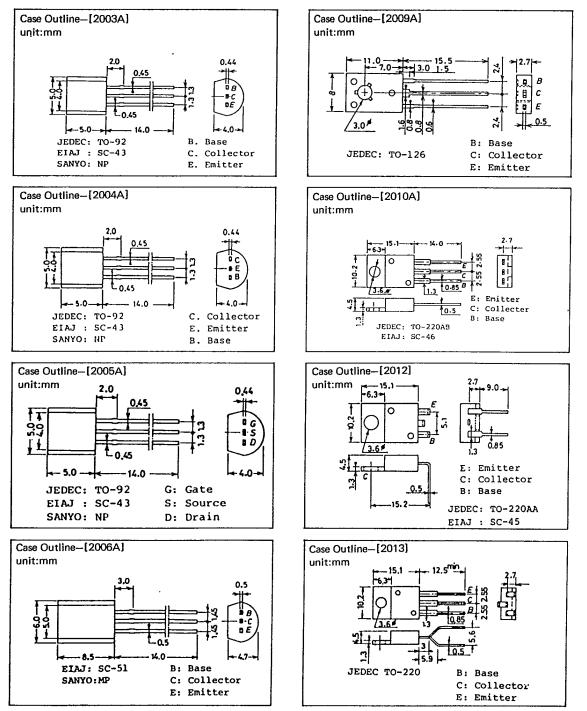
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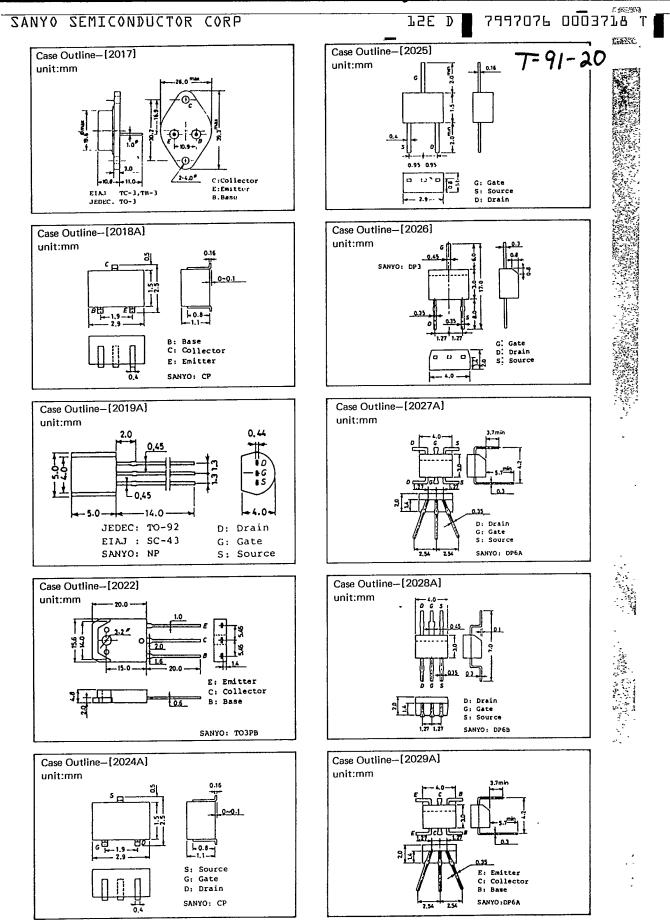
CASE OUTLINES AND ATTACHMENTS

- •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.

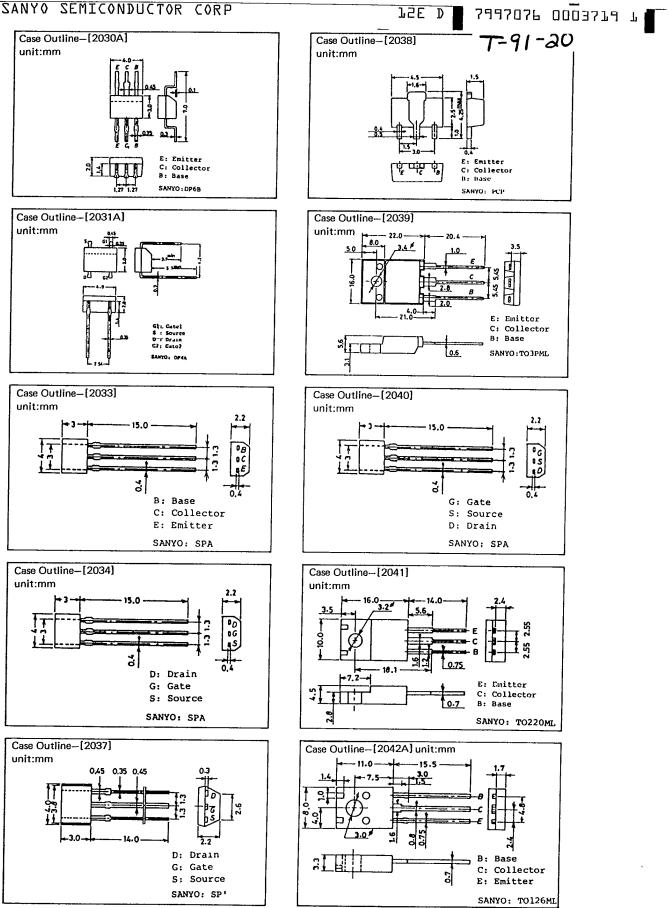
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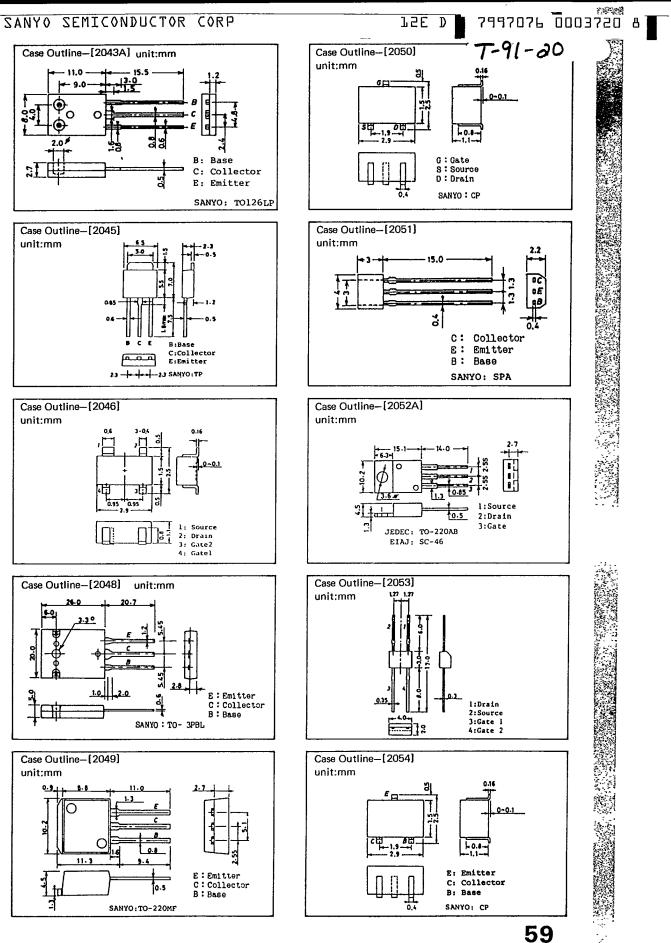
•No marking is indicated.

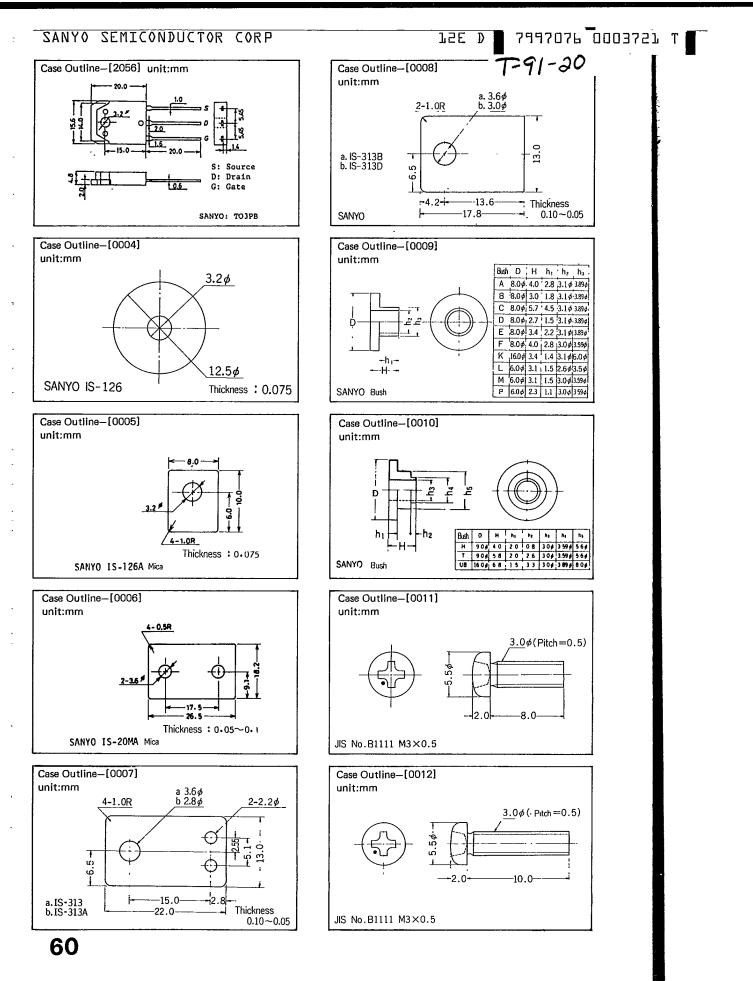


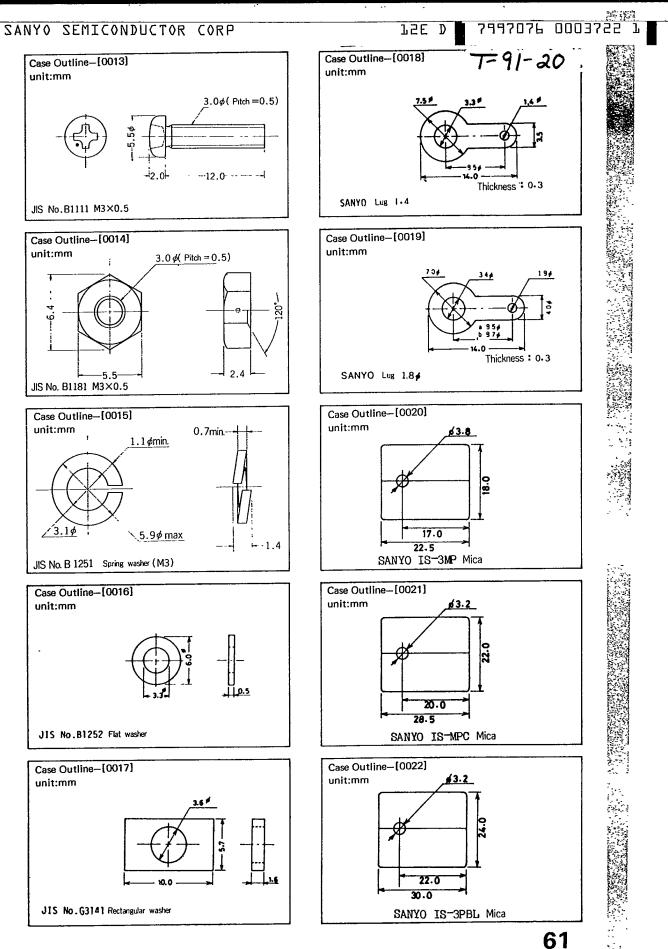


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