

T-31-15 T-31-17

NPN Epitaxial Planar Silicon Transistor

AM Converter, FM RF · IF Amp Applications

The 2SC930 has two types of packge: SPA and NP.

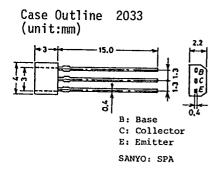
Use

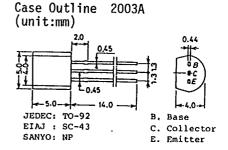
· FM RF amp, mixer, OSC, converter, and IF amplifier.

Absolute Maximum Ratings at Ta=	2SC930SPA	D				
Collector to Base Voltage	v_{CBO}	30	2SC930N	F		unit
Collector to Emitter Voltage	V _{CEO}	20	20			٧
Emitter to Base Voltage	V _{EBO}	5				V
Collector Current	IC	30	5			v
Collector Dissipation	P _C		30			mΑ
Junction Temperature	-	120	250			mW
Storage Temperature	Тj	125	125			°C
	$^{\mathrm{T}}$ stg	-40 to +125 -55	to +125			°C
Electrical Characteristics at T	a=25°C		min	typ	mair	
Collector Cutoff Current	ICBO	$V_{CB}=10V,I_{E}=0$	111.11	CAD		unit
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0			1	uA
DC Current Gain	h_{FE}	VCE=6V,IC=1mA	40*	00	1	uA
Gain Bandwidth Product	fT	VCE=6V,IC=1mA	40*	80	320*	
Reverse Transfer capacitance	c _{re}			300		MHz
•	-I6	V _{CB} =6V, I _C =1MHz(2SC			1.6	pF
Base to Collector	7110	V _{CB} =6V, f=1MHz (2S)	C030Nb1T.0	1.3	1.8	\mathbf{pF}
Time Constant	rbb'cc	V _{CE} =6V, I _C =1mA		20	36	pS
Noise Figure	NF	f=31.9MHz				
1.0400 Liguic	NF.	VCE=6V,IC=lmA		4.0		ďΒ
Turn-on Time		f=100MHz				
ratu on time	t_{on}	$V_{IN}=+12V$, $V_{BB}=-3V$,		30		ns
Turn-off Time		appointed circuit				
rurn-off fille	toff	$V_{IN}=-12V, V_{BB}=+3V,$		30		ns
		appointed circuit	;			

*The 2SC930 is graded as follows by $lmA\ h_{FE}$:

_											
40	С	80	60	מ	120	100	F	200	160		220
				_		1 +00	-	200	1 100	r	3201

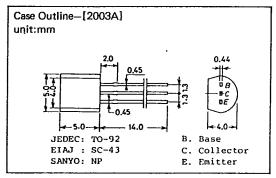


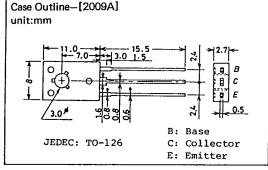


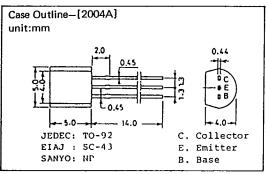
The 2SC930 is scheduled to be discontinued soon. Use the 2SC2839, instead of DataSheet4U.com the 2SC930, in new applications where you are planning to use the 2SC930.

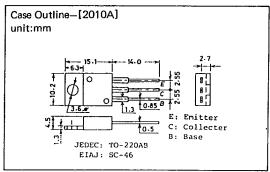
CASE OUTLINES AND ATTACHMENTS

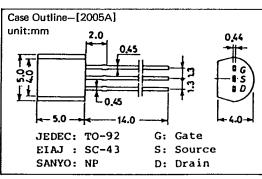
- All of Sanyo Transistor case outlines are illustrated below.
- All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- ●No marking is indicated.

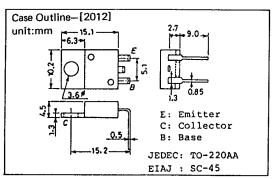


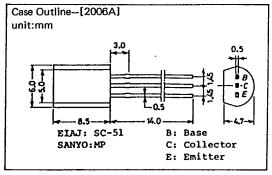


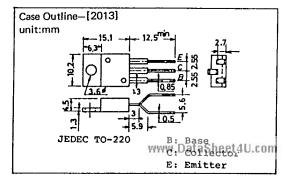


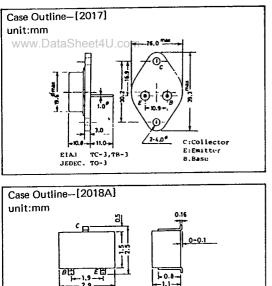


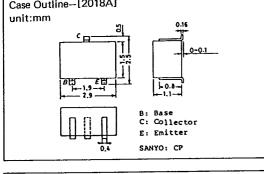


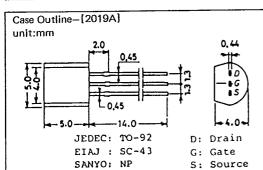


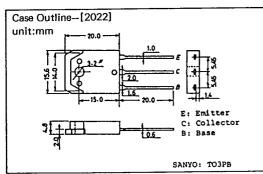


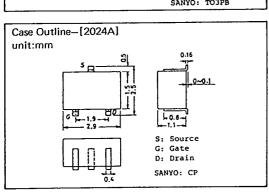


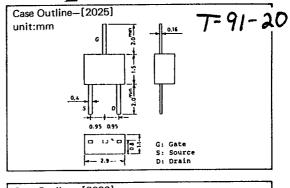












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