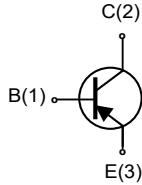
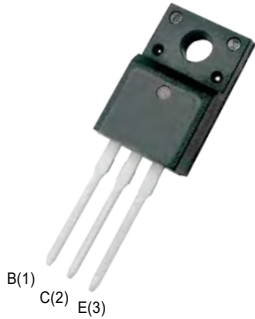


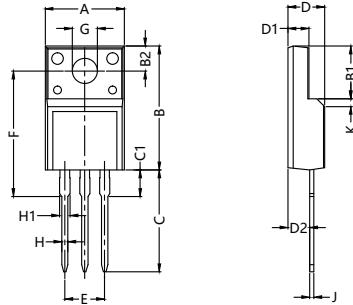
2SA1930A1

Silicon PNP Power Transistor



E=Emitter, C=Collector, B=Base

Dimensions TO-220F



Dim.	Millimeter		Dim.	Millimeter	
	Min.	Max.		Min.	Max.
A	9.80	10.60	D2	2.30	3.30
B	15.40	16.40	E	5.08BSC	
B1	6.00	7.40	F	14.50	16.00
B2	3.20	3.80	ØG	2.90	3.40
C	12.80	13.50	H	0.60	1.00
C1	3.20	4.00	H1	1.15	1.55
D	4.35	4.95	J	0.35	0.65
D1	2.24	2.84	K	0.00	1.60

	V _{CBO}	V _{CEO}	V _{CEsat}	I _C
	V	V	V	A
2SA1930A1	-180	-180	-1.0	-2

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-180	V
V _{CEO}	Collector-Emitter Voltage	-180	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current-Continuous	-2	A
I _B	Base Current	-1	A
P _C	Total Power Dissipation @ T _C =25°C	20	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

DESCRIPTION

- Collector-Emitter Breakdown Voltage
-V_{(BR)CEO}= -180V(Min)
- Collector-Emitter Saturation Voltage
-V_{CE(sat)}=-1.0V(Max) @I_C= -1A

APPLICATIONS

- Switching Regulators
- Converters
- Power Amplifiers



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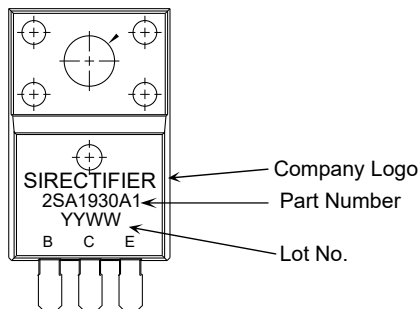
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance, Junction to Case	6.25	°C/W

ELECTRICAL CHARACTERISTICS (TC=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -10mA, I_B = 0A$	-180	--	V
I_{CBO}	Collector Cutoff Current	$V_{CE} = -180V, I_E = 0A$	--	-5.0	uA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5V, I_C = 0A$	--	-5.0	uA
h_{FE1}	DC Current Gain	$I_C = -100mA, V_{CE} = -5V$	100	320	--
h_{FE2}	DC Current Gain	$I_C = -1A, V_{CE} = -5V$	40	--	--
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -1A, I_B = -100mA$	--	-1.0	V
$V_{BE(on)}$	Base-Emitter Saturation Voltage	$I_C = -1A, V_{CE} = -5V$	--	-1.5	V

Marking



ORDERING INFORMATION

Part Number	Package	Shipping	Marking Code
2SA1930A1	TO-220F-3L	50pcs / Tube	2SA1930A1

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Electrical Characteristic Curve

