

## **isc Silicon PNP Power Transistor**

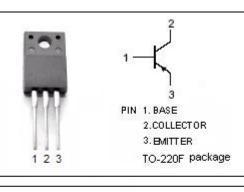
# 2SA1930

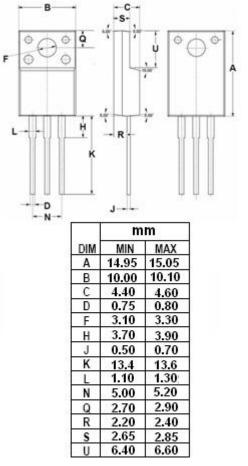
### DESCRIPTION

- High Transition Frenquency : f<sub>T</sub>=200MHz(Typ.)
- Complementary to 2SC5171
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Power amplifier applications
- Driver stage amplifier applications





### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>CBO</sub>	Collector-Base Voltage	-180	V	
Vceo	Collector-Emitter Voltage	-180	V	
Vebo	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-2	A	
I <sub>B</sub>	Base Current-Continuous	-1	A	
Pc	Collector Power Dissipation @ Tc=25°C	20	W	
TJ	Junction Temperature	150	°C	
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C	



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## **ELECTRICAL CHARACTERISTICS**

#### $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
Vceo(sus)	Collector-Emitter Sustaining Voltage	I <sub>C</sub> = -10mA; I <sub>B</sub> = 0	-180			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -1.0A; I <sub>B</sub> =- 0.1A			-1.0	V
V <sub>BE(on)</sub>	Base-Emitter Voltage	I <sub>C</sub> = -1A ; V <sub>CE</sub> = -5V			-1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>св</sub> = -180V ; I <sub>E</sub> = 0			-5	μA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V ; I <sub>C</sub> = 0			-5	μA
h <sub>FE-1</sub>	DC Current Gain	Ic= -0.1A ; Vc= -5V	100		320	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -1A ; V <sub>CE</sub> = -5V	50			
Cob	Collector Output Capacitance	I <sub>E</sub> = 0 ; V <sub>CB</sub> = -10V,f=1MHz		16		pF
fT	Current-Gain—Bandwidth Product	I <sub>C</sub> = -0.3A ; V <sub>CE</sub> = -5V		200		MHz

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