

isc Silicon PNP Power Transistor
2SA1931
DESCRIPTION

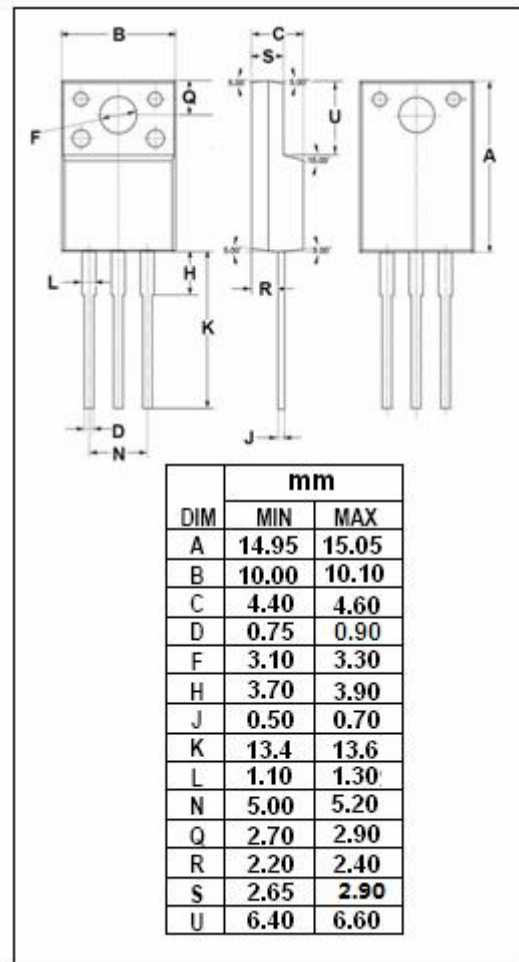
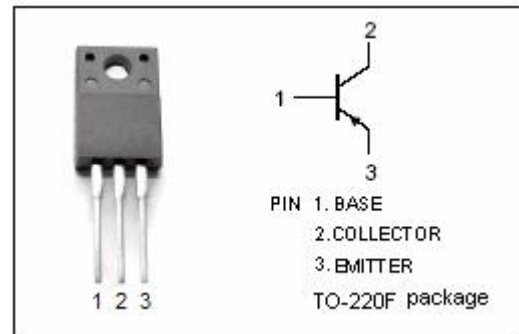
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -0.4V(\text{Max.}) @ I_C = -3A$
- High Switching Speed
- Complement to Type 2SC4881
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high current switching applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-5	A
I_B	Base Current-Continuous	-1	A
P_C	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	2	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	20	
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA; I _B = 0	-50		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.15A		-0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -3A; I _B = -0.15A		-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -50V; I _E = 0		-1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -7V; I _C = 0		-1.0	μ A
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -1V	100	300	
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -1V	60		

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