

isc Silicon PNP Power Transistor
2SA913
DESCRIPTION

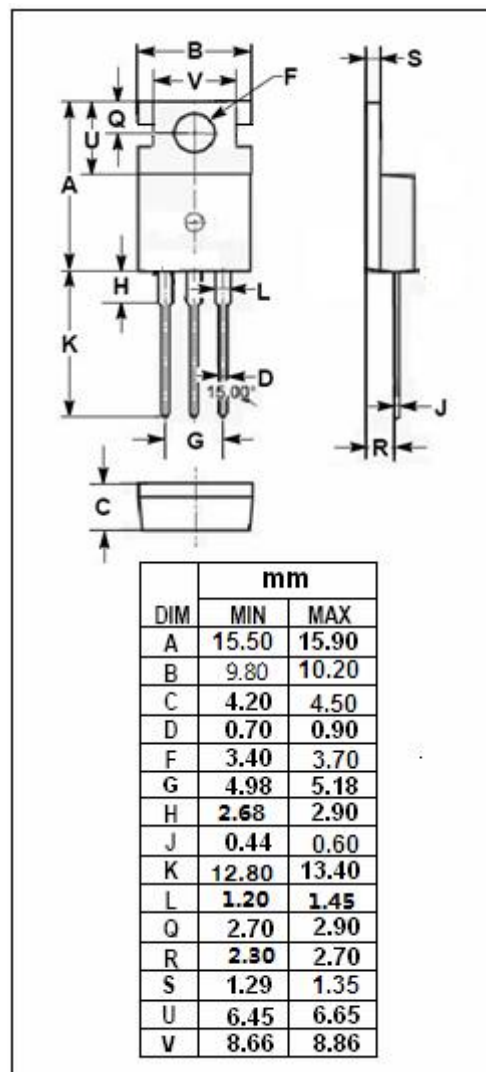
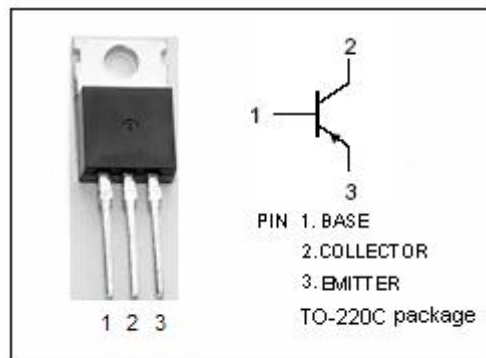
- Collector-Emitter Breakdown Voltage
: $V_{(BR)CEO} = -150V(\text{Min})$
- Complement to Type 2SC1913
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for AF high power driver applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-150	V
V_{CEO}	Collector-Emitter Voltage	-150	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-1	A
I_{CM}	Collector Current-Peak	-1.5	A
P_C	Total Power Dissipation @ $T_C=25^\circ\text{C}$	15	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

 T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -0.1mA; I _B = 0	-150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -10 μ A; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -500mA; I _B = -50mA			-1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -500mA; I _B = -50mA			-1.5	V
h _{FE-1}	DC Current Gain	I _C = -150mA; V _{CE} = -10V	65		330	
h _{FE-2}	DC Current Gain	I _C = -500mA; V _{CE} = -5V	50			
C _{OB}	Output Capacitance	I _E =0; V _{CB} = -100V; f= 1.0MHz			15	pF
f _T	Current-Gain—Bandwidth Product	I _E = 50mA; V _{CE} = -10V		120		MHz

◆ h_{FE-1} Classifications

P	Q	R	S
65-110	90-155	130-220	185-330

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