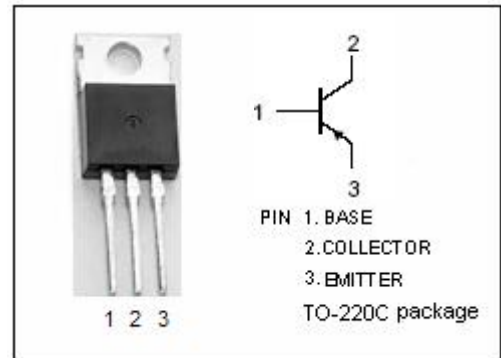


isc Silicon PNP Power Transistor
2SA1010
DESCRIPTION

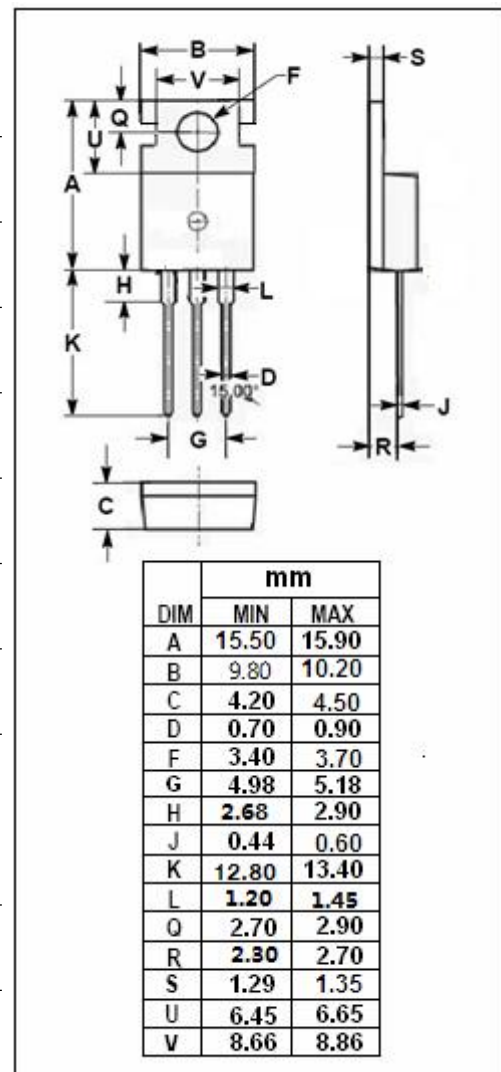
- Low Collector Saturation Voltage
- Fast Switching Speed
- Complement to Type 2SC2334
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Developed for high-voltage high-speed switching, and is ideal for use as a driver in devices such as switching regulators, DC/DC converters, and high frequency power amplifiers.


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-7.0	V
I _C	Collector Current-Continuous	-7.0	A
I _{CM}	Collector Current-Peak	-15	A
I _B	Base Current-Continuous	-3.5	A
P _C	Collector Power Dissipation @ T _a =25°C	1.5	W
	Collector Power Dissipation @ T _C =25°C	40	
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



isc Silicon PNP Power Transistor**2SA1010****ELECTRICAL CHARACTERISTICS**T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -5.0A ; I _B = -0.5A, L=1mH	-100		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5.0A; I _B = -0.5A		-0.6	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5.0A; I _B = -0.5A		-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V ; I _E =0		-10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C =0		-10	μ A
h _{FE-1}	DC Current Gain	I _C = -0.5A ; V _{CE} = -5V	40	200	
h _{FE-2}	DC Current Gain	I _C = -3.0A ; V _{CE} = -5V	40	200	
h _{FE-3}	DC Current Gain	I _C = -5.0A ; V _{CE} = -5V	20		

◆ **h_{FE-2} Classifications**

M	L	K
40-80	60-120	100-200

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