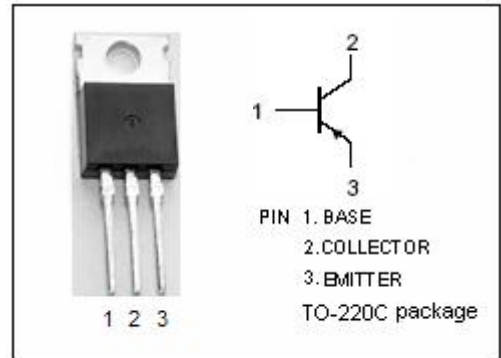


isc Silicon PNP Power Transistor
2SA1069A
DESCRIPTION

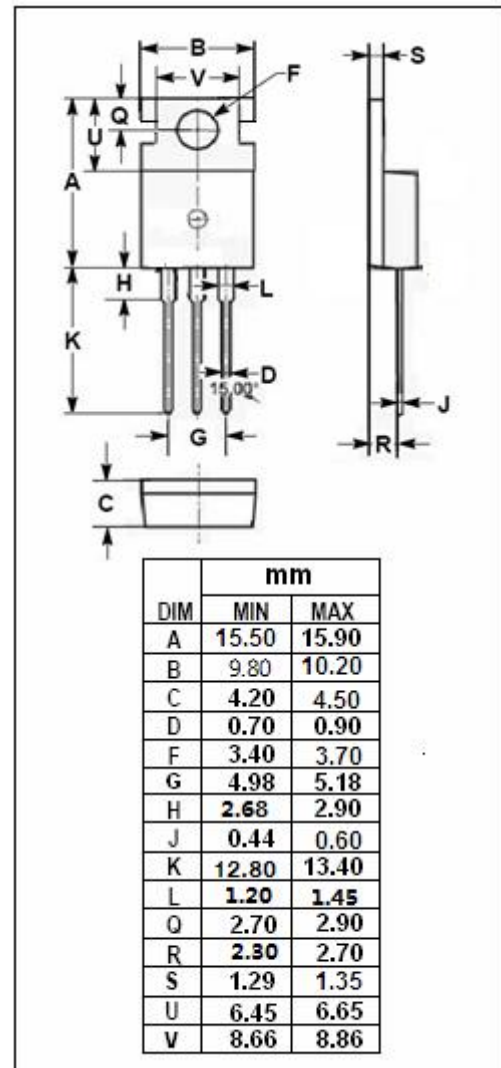
- Low Collector Saturation Voltage
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for 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 _{CB0}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-12	V
I _C	Collector Current-Continuous	-5	A
I _{CM}	Collector Current-Peak	-10	A
I _B	Base Current-Continuous	-2.5	A
P _C	Collector Power Dissipation @ T _a =25°C	1.5	W
	Total Power Dissipation @ T _C =25°C	30	
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



isc Silicon PNP Power Transistor**2SA1069A****ELECTRICAL CHARACTERISTICS** $T_c=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C = -3.0A$; $I_B = -0.3A$, $L=1mH$	-80		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -3.0A$; $I_B = -0.3A$		-0.6	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -3.0A$; $I_B = -0.3A$		-1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -60V$; $I_E = 0$		-10	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5V$; $I_C = 0$		-10	μA
h_{FE-1}	DC Current Gain	$I_C = -0.3A$; $V_{CE} = -5V$	40		
h_{FE-2}	DC Current Gain	$I_C = -3.0A$; $V_{CE} = -5V$	40	200	

◆ **h_{FE-2} Classifications**

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

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