

**isc Silicon PNP Power Transistor**
**2SA1069**
**DESCRIPTION**

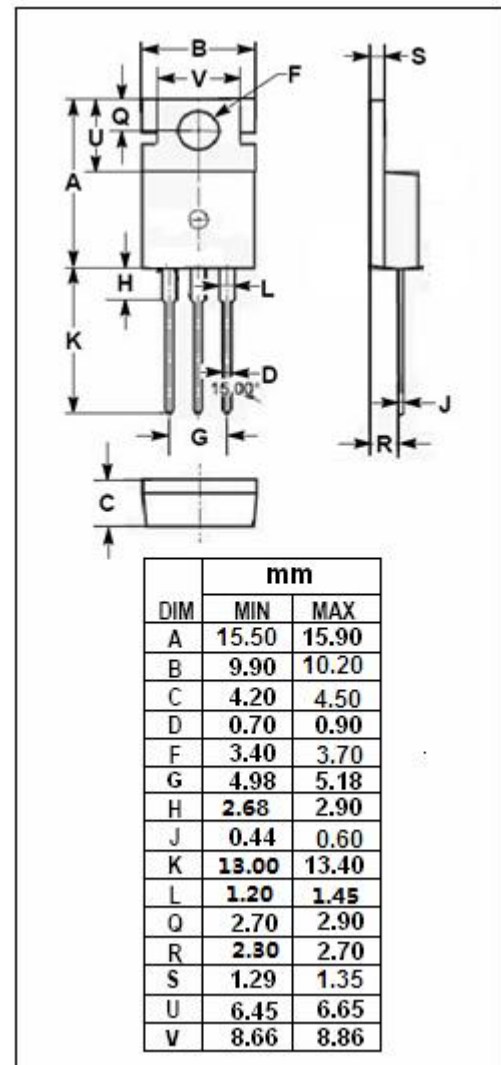
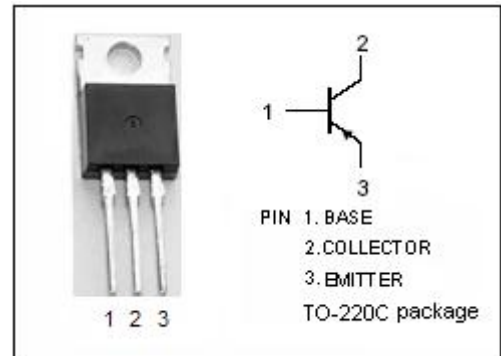
- Low Collector Saturation Voltage
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**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<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-80	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-60	V
V <sub>EBO</sub>	Emitter-Base Voltage	-12	V
I <sub>C</sub>	Collector Current-Continuous	-5	A
I <sub>CM</sub>	Collector Current-Peak	-10	A
I <sub>B</sub>	Base Current-Continuous	-2.5	A
P <sub>C</sub>	Collector Power Dissipation @ T <sub>a</sub> =25°C	1.5	W
	Total Power Dissipation @ T <sub>C</sub> =25°C	30	
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C



**isc Silicon PNP Power Transistor****2SA1069****ELECTRICAL CHARACTERISTICS** $T_c=25^\circ\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C = -3.0A$ ; $I_B = -0.3A$ , $L=1mH$	-60		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	$\mu A$
$I_{EBO}$	Emitter Cutoff Current	$V_{EB} = -5V$ ; $I_C = 0$		-10	$\mu A$
$h_{FE-1}$	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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