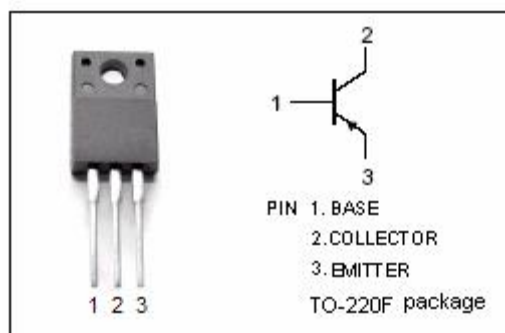


**isc Silicon PNP Power Transistor**
**2SA2057**
**DESCRIPTION**

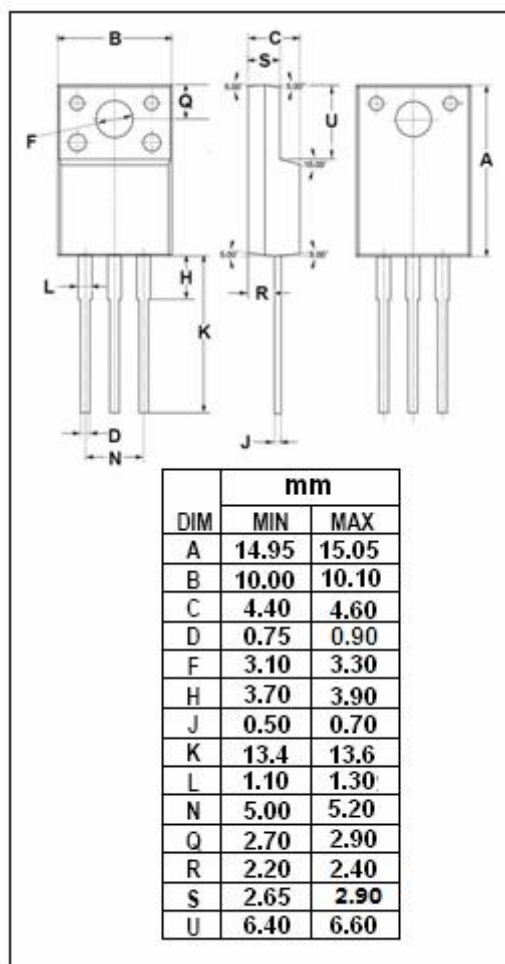
- High speed switching
- Low collector-emitter saturation voltage
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Power supply for audio & visual equipments such as TVS and VCRS
- Industrial equipments such as DC-DC converters


**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	-60	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-60	V
V <sub>EBO</sub>	Emitter-Base Voltage	-6	V
I <sub>C</sub>	Collector Current-Continuous	-3	A
I <sub>B</sub>	Base Current-Continuous	-6	A
P <sub>C</sub>	Collector Power Dissipation @T <sub>a</sub> =25°C	2.0	W
	Collector Power Dissipation @T <sub>c</sub> =25°C	20	
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55~150	°C



## isc Silicon PNP Power Transistor

2SA2057

## ELECTRICAL CHARACTERISTICS

T<sub>j</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -10mA ; I <sub>B</sub> = 0	-60			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -3A; I <sub>B</sub> = -375mA			-0.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -60V ; I <sub>E</sub> =0			-100	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -6V; I <sub>C</sub> =0			-1	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -1A; V <sub>CE</sub> = -4V	120		320	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -3A; V <sub>CE</sub> = -4V	40			
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>C</sub> = -100mA ; V <sub>CE</sub> = -10V		90		MHz

## Notice:

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