

**isc Silicon NPN Power Transistor**

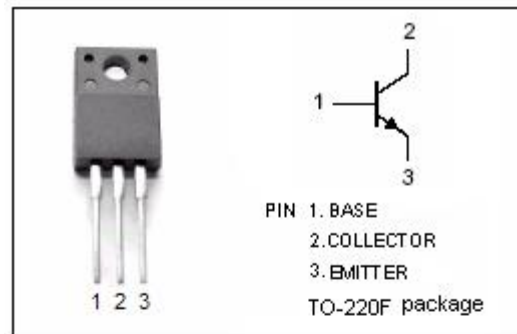
**2SC5895**

**DESCRIPTION**

- High Breakdown Voltage
- Wide Area of Safe Operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

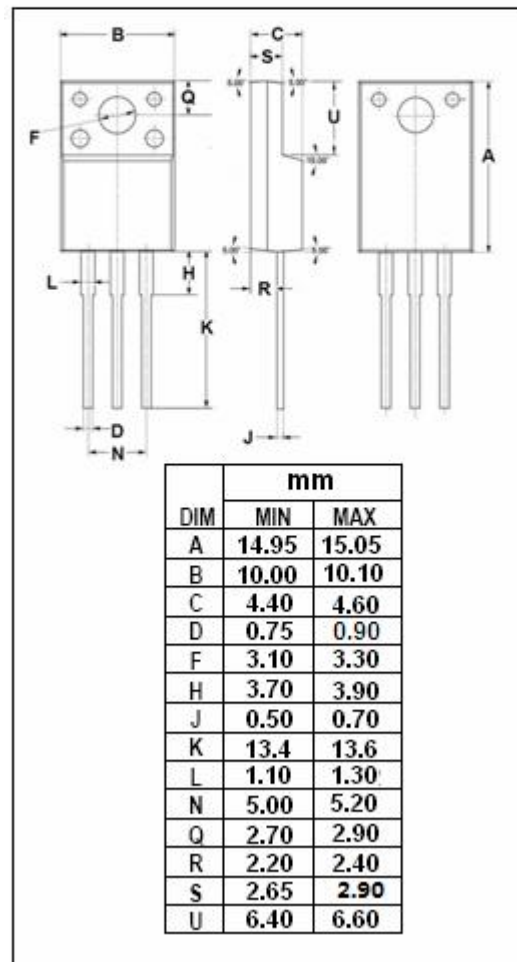
**APPLICATIONS**

- 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	2	A
I <sub>B</sub>	Base Current- Continuous	0.5	A
I <sub>CP</sub>	Collector Current-Pulse	4	A
P <sub>C</sub>	Collector Power Dissipation @ T <sub>a</sub> =25°C	2	W
	Collector Power Dissipation @ T <sub>C</sub> =25°C	15	
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C



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**ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 2A; I <sub>B</sub> = 0.25A			0.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 60V; I <sub>E</sub> = 0			100	μ A
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = 1A; V <sub>CE</sub> = 4V	80		250	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 0.2A; V <sub>CE</sub> = 4V	60			
h <sub>FE-3</sub>	DC Current Gain	I <sub>C</sub> = 2A; V <sub>CE</sub> = 4V	30			
t <sub>stg</sub>	Storage Time	I <sub>C</sub> = 1A, I <sub>B1</sub> = 0.1A; I <sub>B2</sub> = -0.1A		0.7		μ s
t <sub>f</sub>	Fall Time			0.15		μ s

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