

### **isc Silicon PNP Power Transistor**

# **TTA0001**

### DESCRIPTION

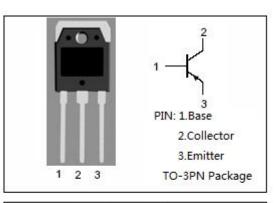
- · Low Collector Saturation Voltage
- Good Linearity of h<sub>FE</sub>
- Complement to Type TTC0001
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

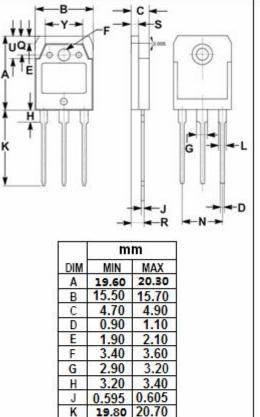
### **APPLICATIONS**

- · Power amplifier applications
- · Recommend for 100W high fidelity audio frequency amplifier output stage applications

### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>CBO</sub>	Collector-Base Voltage	-160	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	-160	V	
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-18	A	
IB	Base Current-Continuous	-9	А	
Pc	Collector Power Dissipation @ $T_C=25^{\circ}C$	150	W	
TJ	Junction Temperature	150	°C	
T <sub>stg</sub>	Storage Temperature Range	-55~150	Ĉ	





2.20

5.10

2.100

5.90 6.20

9.90 10.10

3.45

1.90 10.89 10.91

4.90

3.35

1.995

N

0

R

S

U

Y

1



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## TTA0001

### **ELECTRICAL CHARACTERISTICS**

#### $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -50mA ; I <sub>B</sub> = 0	-160			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -9A; I <sub>B</sub> = -0.9A			-2.0	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = -9A ; V <sub>CE</sub> = -5V			-1.5	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> = -160V ; I <sub>E</sub> =0			-1.0	μ <b>Α</b>
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> =0			-1.0	μ Α
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = -1A ; V <sub>CE</sub> = -5V	80		160	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = -9A ; V <sub>CE</sub> = -5V	35			
Сов	Output Capacitance	I <sub>E</sub> =0 ; V <sub>CB</sub> = -10V;f <sub>test</sub> = 1.0MHz		410		pF
f⊤	Current-Gain—Bandwidth Product	Ic=-1A ; Vce= -5V		30		MHz

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