

# 2SC5198T7TL

## **Silicon NPN Power Transistor**

## DESCRIPTION

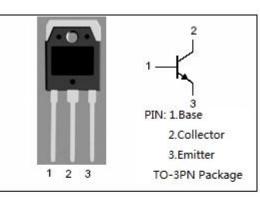
- Low Collector Saturation Voltage-: V<sub>CE(sat)</sub>= 2.0V(Min) @I<sub>C</sub>= 7A
- Good Linearity of hFE
- Complement to Type 2SA1941

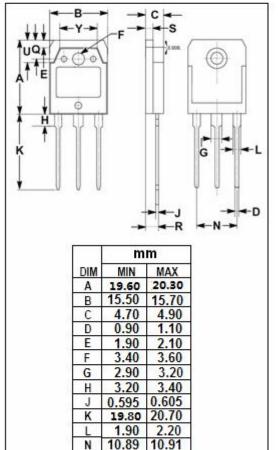
## APPLICATIONS

- Power amplifier applications
- Recommend for 70W high fidelity audio frequency amplifier output stage applications

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>CBO</sub>	Collector-Base Voltage	140	V	
VCEO	Collector-Emitter Voltage	140	V	
V <sub>EBO</sub>	Emitter-Base Voltage	5	V	
lc	Collector Current-Continuous	10	A	
lв	Base Current-Continuous	1	A	
Pc	Collector Power Dissipation @ Tc=25℃	100	W	
TJ	T <sub>J</sub> Junction Temperature		Ĉ	
T <sub>stg</sub> Storage Temperature Range		-55~150	°C	

### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





0

R

S

U

Y

4.90

3.35

5.90

9.90

1.995

5.10

3.45

2.100

6.20

10.10

## **Ordering Information**

Product	Package	Packaging		
2SC5198T7TL	TO-3PI	Tube		



## **ELECTRICAL CHARACTERISTICS**

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 50mA ; I <sub>B</sub> = 0	140			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 7A; I <sub>B</sub> = 0.7A			2.0	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = 5A ; V <sub>CE</sub> = 5V			1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 140V ; I <sub>E</sub> =0			5	μA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> =0			5	μA
hfe-1	DC Current Gain	Ic= 1A ; V <sub>CE</sub> = 5V	55		160	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 5A ; V <sub>CE</sub> = 5V	35			
C <sub>OB</sub>	Output Capacitance	I <sub>E</sub> =0 ; V <sub>CB</sub> = 10V;f <sub>test</sub> = 1.0MHz		170		pF
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>C</sub> = 1A ; V <sub>CE</sub> = 5V		30		MHz

## h<sub>FE-1</sub> Classifications

R	0	
55-110	80-160	

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