

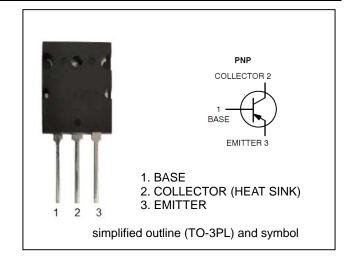
### Silicon PNP Power Transistors

### **DESCRIPTION**

- · High Collector-Emitter Breakdown Voltage-
  - : V(BR)CEO= 230V(Min)
- ·Complement to Type 2SC5200

## **APPLICATIONS**

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



### **MAXIMUM RATINGS**

Characteristic	Symbol	Min	Unit
Collector-Base Voltage	V <sub>CBO</sub>	230	V
Collector-Emitter Voltage	V <sub>CEO</sub>	230	V
Emitter-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	Ic	15	А
Base current	lв	1.5	Α
Collector power dissipation @ Tc=25℃	Pc	150	W
Junction Temperature	T <sub>j</sub> ,	150	°C
Storage Temperature Range	T <sub>stg</sub>	-65 to +150	°C

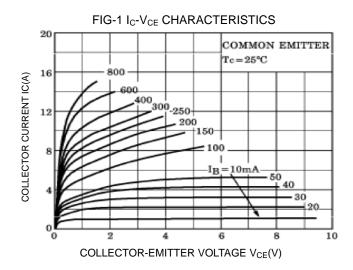
## **ELECTRICAL CHARATERISTICS** (T<sub>C</sub>=25°C unless otherwise notes)

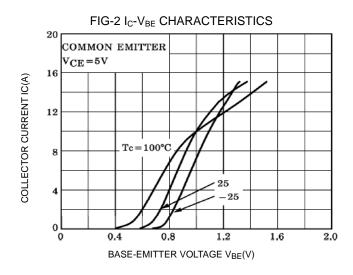
Characteristic	Symbol	Min.	Тур.	Max.	Unit
Collector-Emitter Breakdown Voltage (I <sub>C</sub> = 50 mA , I <sub>B</sub> =0 )	V <sub>CEO</sub>	230			V
Collector Cutoff Current ( Vcb = 230 V , I <sub>E</sub> = 0V )	I <sub>CBO</sub>			5	uA
Emitter Cutoff Current (V <sub>EB</sub> = 5.0 V , Ic =0)	I <sub>EB0</sub>			5	uA
DC Current Gain (I <sub>C</sub> = 1.0 A, V <sub>CE</sub> =5.0 V)	h <sub>FE(1)</sub> (Note)	55		160	
DC Current Gain (I <sub>C</sub> = 7.0 A, V <sub>CE</sub> =5.0 V)	h <sub>FE(2)</sub>	35			
Collector-Emitter Saturation Voltage (I <sub>C</sub> = 8.0 A, I <sub>B</sub> = 0.8 A)	V <sub>CE(SAT)</sub>			3.0	V
Base-Emitter On Voltage (I <sub>C</sub> = 7.0 A, V <sub>CE</sub> =5.0 V)	V <sub>BE(ON)</sub>			1.5	V
Output Capacitance (I <sub>E</sub> =0 , V <sub>CB</sub> = 10V , f = 1.0MHz)	Сов		200		pF
Current-Gain—Bandwidth Product (Ic= 1A; Vc= 5V)	fτ		30		MHz

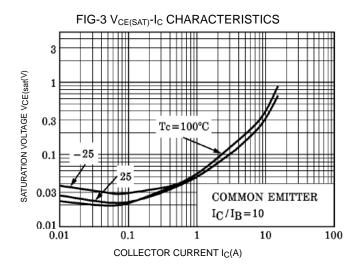
Note:  $h_{FE(1)}$  Classifications R: 55~110, O:

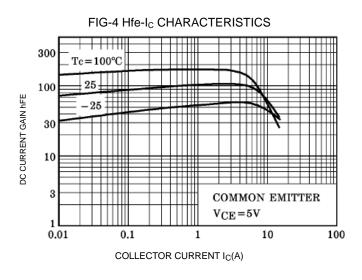
80~160 RA-D-0896 Ver.B

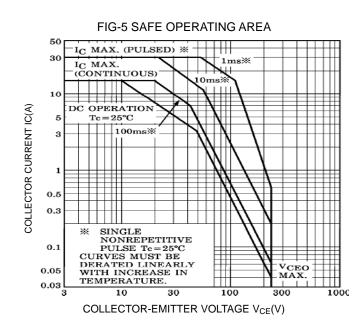








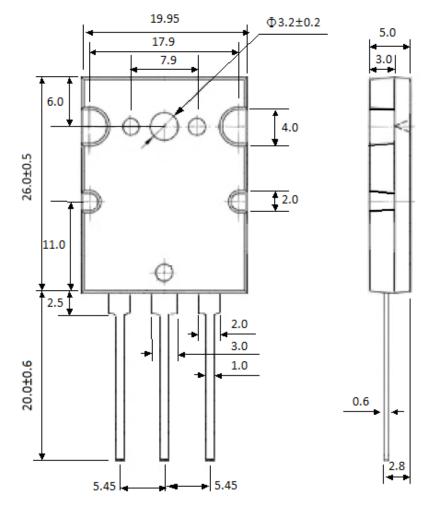






# **PACKAGE OUTLINE DIMENSIONS (Unit in mm)**

# TO-3PL





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