

**Silicon NPN Power Transistors**

**2SC3298 2SC3298A 2SC3298B**

**DESCRIPTION**

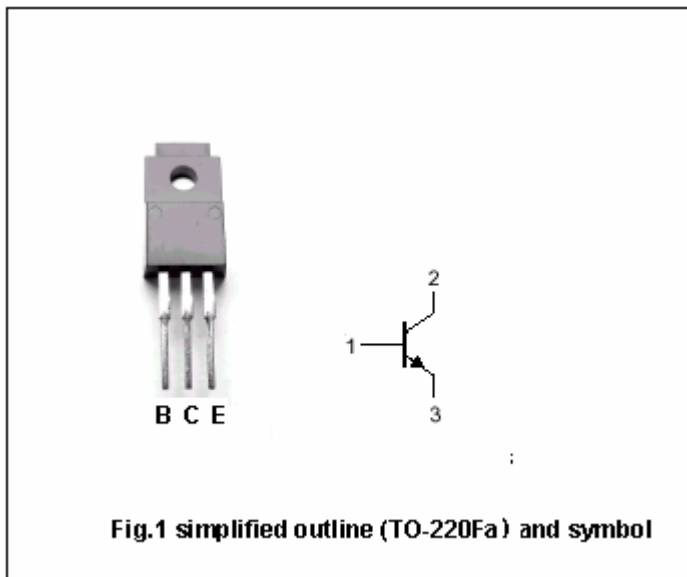
- With TO-220Fa package
- Complement to type  
2SA1306,2SA1306A,2SA1306B

**APPLICATIONS**

- Power amplifier applications
- Driver stage amplifier applications

**PINNING**

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter



**Absolute maximum ratings (Ta=25°C)**

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V <sub>CBO</sub>	Collector-base voltage	2SC3298	160	V
		2SC3298A	180	
		2SC3298B	200	
V <sub>CEO</sub>	Collector-emitter voltage	2SC3298	160	V
		2SC3298A	180	
		2SC3298B	200	
V <sub>EBO</sub>	Emitter-base voltage	Open collector	5	V
I <sub>C</sub>	Collector current		1.5	A
I <sub>B</sub>	Base current		0.15	A
P <sub>C</sub>	Collector power dissipation	T <sub>C</sub> =25°C	20	W
T <sub>j</sub>	Junction temperature		150	°C
T <sub>stg</sub>	Storage temperature		-55~150	°C

## Silicon NPN Power Transistors

## 2SC3298 2SC3298A 2SC3298B

## 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	2SC3298	160			V
		2SC3298A	180			
		2SC3298B	200			
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =0.5A, I <sub>B</sub> =50mA			1.5	V
V <sub>BE</sub>	Base-emitter voltage	I <sub>C</sub> =0.5A, V <sub>CE</sub> =5V			1.0	V
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =160V, I <sub>E</sub> =0			1.0	μA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =5V, I <sub>C</sub> =0			1.0	μA
h <sub>FE</sub>	DC current gain	I <sub>C</sub> =0.1A; V <sub>CE</sub> =5V	70		240	
C <sub>ob</sub>	Output capacitance	I <sub>E</sub> =0; V <sub>CB</sub> =10V, f=1MHz		25		pF
f <sub>T</sub>	Transition frequency	I <sub>C</sub> =0.1A; V <sub>CE</sub> =10V		100		MHz

◆ h<sub>FE</sub> Classifications

O	Y
70-140	120-240

PACKAGE OUTLINE

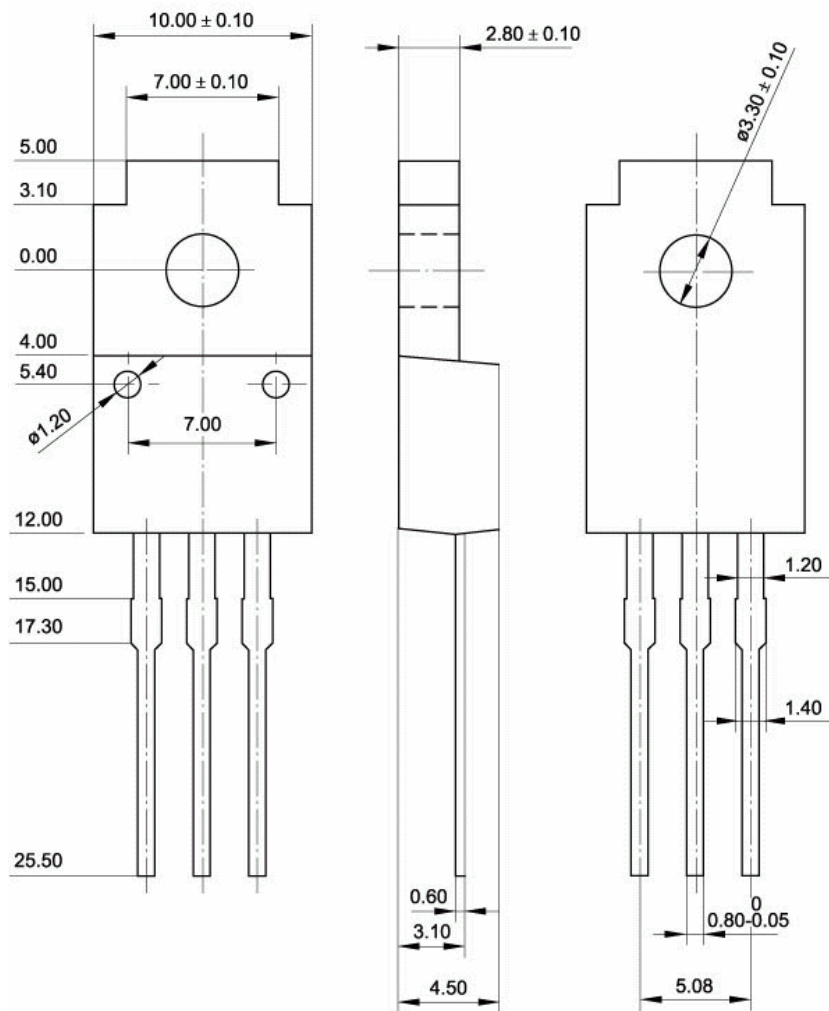


Fig.2 Outline dimensions (unindicated tolerance:  $\pm 0.15$  mm)