

Silicon NPN Power Transistors

2SC1626

DESCRIPTION

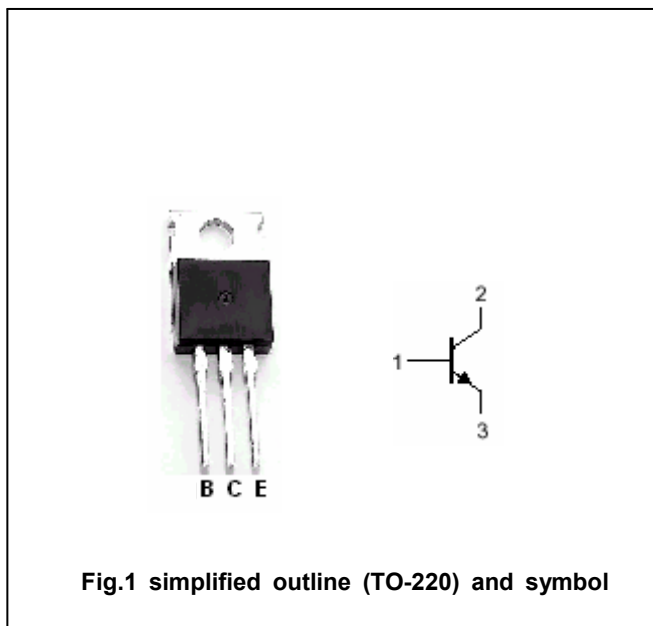
- With TO-220C package
- Complement to type 2SA816

APPLICATIONS

- Designed for the driver stages of 30-50W high-fidelity amplifiers and medium speed switching up to 2A peak current

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter



Absolute maximum ratings(Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V <sub>CB0</sub>	Collector-base voltage	Open emitter	80	V
V <sub>CEO</sub>	Collector-emitter voltage	Open base	80	V
V <sub>EBO</sub>	Emitter-base voltage	Open collector	5	V
I <sub>C</sub>	Collector current		750	mA
I <sub>CM</sub>	Collector current-peak		2	A
P <sub>T</sub>	Total power dissipation	T <sub>a</sub> =25°C	1.5	W
		T <sub>C</sub> =25°C	10	
T <sub>j</sub>	Junction temperature		150	°C
T <sub>stg</sub>	Storage temperature		-50~150	°C

## Silicon NPN Power Transistors

## 2SC1626

## 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	I <sub>C</sub> =10mA ; I <sub>B</sub> =0	80			V
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>C</sub> =0.1mA ; I <sub>E</sub> =0	80			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =500mA ; I <sub>B</sub> =50mA			0.5	V
V <sub>BE</sub>	Base-emitter on voltage	I <sub>C</sub> =500mA ; V <sub>CE</sub> =2V			1.0	V
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =30V ; I <sub>E</sub> =0			0.5	μA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =5V ; I <sub>C</sub> =0			1	μA
h <sub>FE-1</sub>	DC current gain	I <sub>C</sub> =150mA ; V <sub>CE</sub> =2V	70		240	
h <sub>FE-2</sub>	DC current gain	I <sub>C</sub> =500mA ; V <sub>CE</sub> =2V	40			
f <sub>T</sub>	Transition frequency	I <sub>C</sub> =150mA ; V <sub>CE</sub> =2V	50			MHz
C <sub>ob</sub>	Collector output capacitance	I <sub>E</sub> =0 ; f=1MHz ; V <sub>CB</sub> =10V		13		pF

◆ h<sub>FE-1</sub> Classifications

O	Y
70-140	120-240

Silicon NPN Power Transistors

2SC1626

PACKAGE OUTLINE



Fig.2 Outline dimensions (unindicated tolerance:  $\pm 0.10$  mm)