

Silicon PNP Power Transistors

2SA670

DESCRIPTION

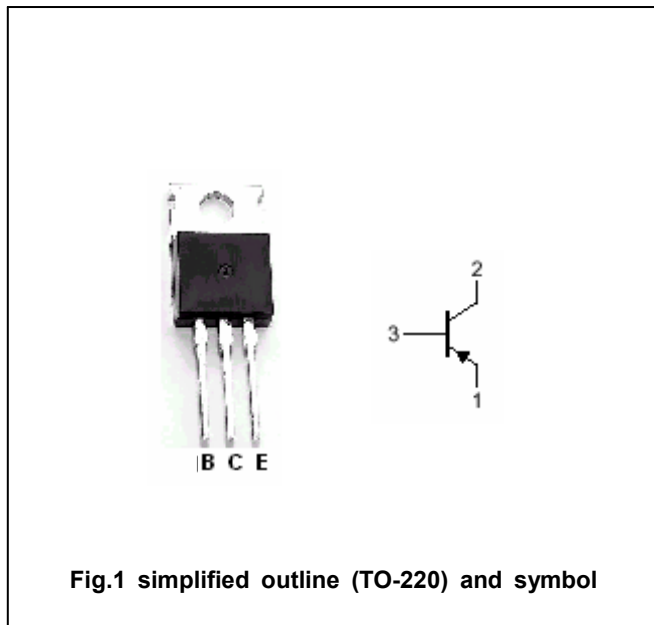
- With TO-220 package
- Low collector saturation voltage

APPLICATIONS

- Inverters;converters
- Power amplification
- Switching regulator ,driver

PINNING

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

Absolute maximum ratings($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-50	V
V_{CEO}	Collector-emitter voltage	Open base	-50	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-3	A
P_C	Collector power dissipation	$T_C=25^\circ\text{C}$	25	W
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~150	$^\circ\text{C}$

Silicon PNP Power Transistors

2SA670

CHARACTERISTICS

T_j=25 °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-25mA, I _B =0	-50			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-1mA; I _E =0	-50			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-1mA; I _C =0	-5			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-2A; I _B =-0.2A			-1.0	V
I _{CBO}	Collector cut-off current	V _{CB} =-50V; I _E =0			-100	μA
I _{EBO}	Emitter cut-off current	V _{EB} =-5V; I _C =0			-100	μA
h _{FE}	DC current gain	I _C =-1A; V _{CE} =-4V	35		200	
f _T	Transition frequency	I _C =-0.5A; V _{CE} =-10V	15			MHz

Silicon PNP Power Transistors

2SA670

PACKAGE OUTLINE



Fig.2 Outline dimensions(unindicated tolerance:±0.10 mm)