

Silicon PNP Power Transistors

2SA755

DESCRIPTION

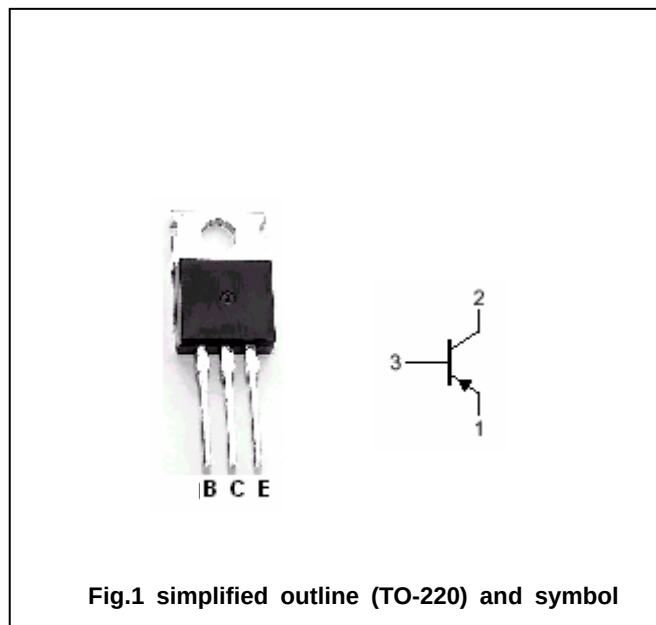
- With TO-220 package
- Complement to type 2SC1419
- Note: Type 2SA754 with short pin

APPLICATIONS

- For low frequency power amplifier applications

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	-4	V
I_C	Collector current		-2	A
P_C	Collector power dissipation	$T_C=25^{\circ}\text{C}$	20	W
T_j	Junction temperature		150	$^{\circ}\text{C}$
T_{stg}	Storage temperature		-55~150	$^{\circ}\text{C}$

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-50mA, R _{BE} =∞	-50			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-5mA, I _E =0	-50			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-5mA, I _C =0	-4			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-1.5A; I _B =-0.15A			-1.3	V
V _{BE}	Base-emitter on voltage	I _C =-1A; V _{CE} =-4V			-1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-20V; I _E =0			-100	μA
h _{FE-1}	DC current gain	I _C =-1A; V _{CE} =-4V	35		200	
h _{FE-2}	DC current gain	I _C =-0.1A; V _{CE} =-4V	35			
f _T	Transition frequency	I _C =-0.5A; V _{CE} =-4V		50		MHz

◆ h_{FE-1} Classifications

A	B	C
35-70	60-120	100-200

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