

Silicon NPN Power Transistors

BD943

DESCRIPTION

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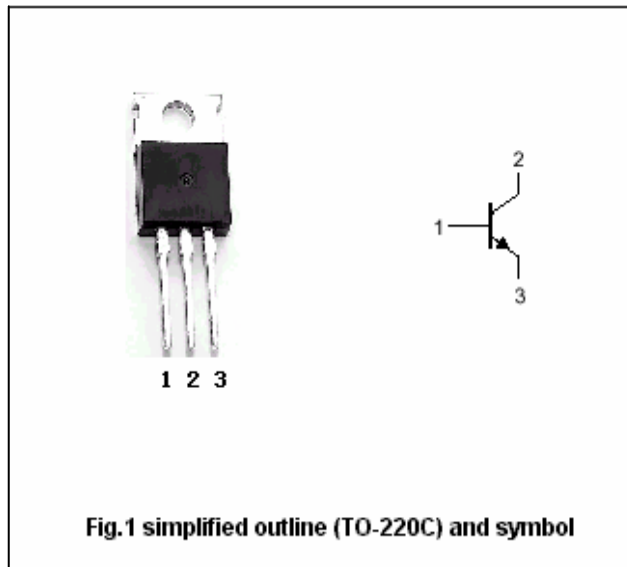
- With TO-220C package
- Low collector saturation voltage
- High current capability

APPLICATIONS

- For medium power linear and switching applications

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 _{CBO}	Collector-base voltage	Open emitter	22	V
V _{CEO}	Collector-emitter voltage	Open base	22	V
V _{EBO}	Emitter-base voltage	Open collector	7	V
I _C	Collector current		5	A
P _C	Collector dissipation	T _C =25°C	40	W
T _j	Junction temperature		150	°C
T _{stg}	Storage temperature		-50~150	°C

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CHARACTERISTICS

T_j=25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =10mA; I _B =0	22			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =1mA; I _C =0	7			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =2A; I _B =0.2A			0.5	V
V _{BEsat}	Base-emitter saturation voltage	I _C =2A; I _B =0.2A			1.2	V
I _{CBO}	Collector cut-off current	V _{CB} =22V; I _E =0			50	μA
I _{EBO}	Emitter cut-off current	V _{EB} =7V; I _C =0			50	μA
h _{FE}	DC current gain	I _C =0.5A ; V _{CE} =1V	85		475	
f _T	Transition frequency	I _C =0.25A ; V _{CE} =10V	3			MHz

PACKAGE OUTLINE

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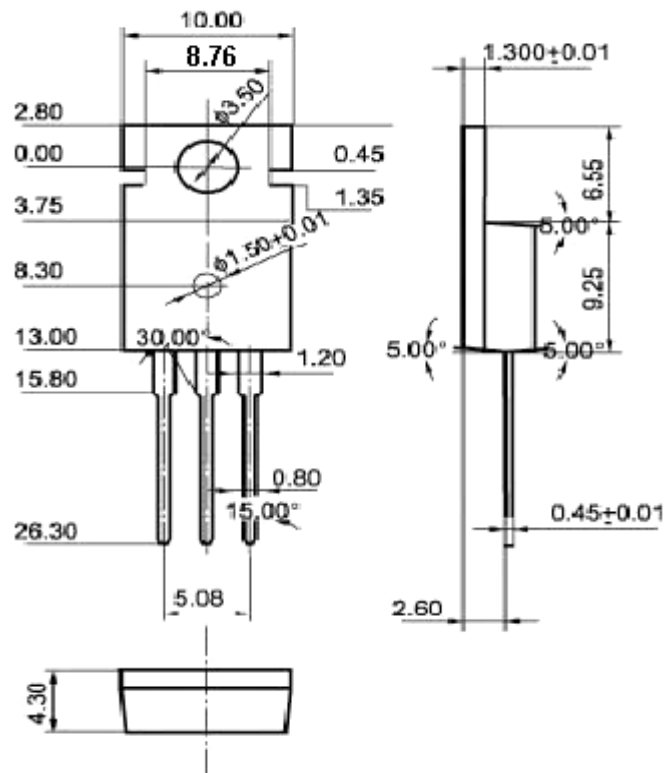


Fig.2 Outline dimensions (unindicated tolerance: ± 0.10 mm)