

Silicon NPN Power Transistors

BU903

DESCRIPTION

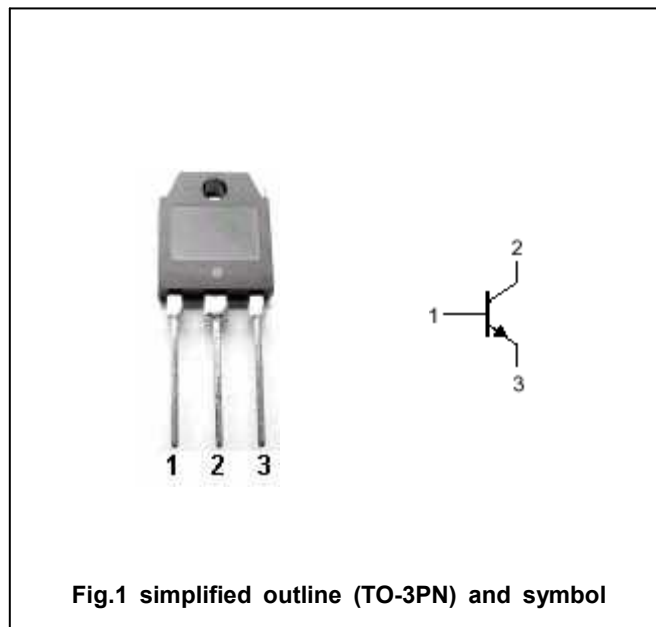
- With TO-3PN package
- High voltage
- High speed switching

APPLICATIONS

- For color TV horizontal deflection circuits.

PINNING

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

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	1350	V
V_{CEO}	Collector-emitter voltage	Open base	550	V
V_{EBO}	Emitter-base voltage	Open collector	7	V
I_C	Collector current		6	A
P_T	Total power dissipation	$T_C=25$	125	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-65~150	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal resistance junction case	1.0	/W

Silicon NPN Power Transistors**BU903****CHARACTERISTICS****T_j=25** unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEQ(SUS)}	Collector-emitter sustaining voltage	I _C =100mA; I _B =0;	550			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =10mA; I _C =0;	7			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =3.2A; I _B =0.8A			2.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =3.2A; I _B =0.8A			1.3	V
I _{CBO}	Collector cut-off current	V _{CB} =1300V; I _E =0			1.0	mA
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0			0.1	mA
h _{FE}	DC current gain	I _C =1.5A ; V _{CE} =5V	8			

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[illegible]

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