

## Silicon NPN Power Transistors

BU546

## DESCRIPTION

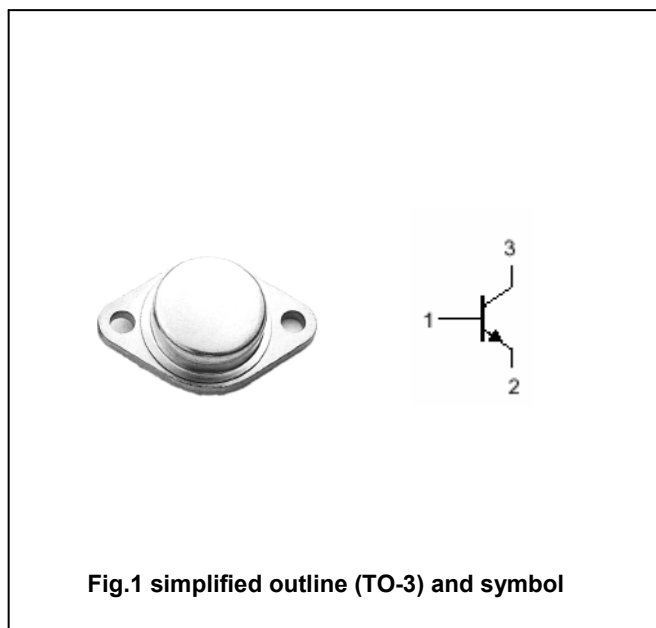
- With TO-3 package
- High voltage
- Fast switching speed

## APPLICATIONS

- For color TV horizontal deflection circuits.

## PINNING(see fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

Absolute maximum ratings( $T_a = \square$ )

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{CBO}$	Collector-base voltage	Open emitter	1300	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	$T_C = 25 \square$	100	W
$T_j$	Junction temperature		175	$\square$
$T_{stg}$	Storage temperature		-65~175	$\square$

## THERMAL CHARACTERISTICS

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

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## CHARACTERISTICS

T<sub>j</sub>=25 °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CEO(SUS)</sub>	Collector-emitter sustaining voltage	I <sub>C</sub> =100mA; I <sub>B</sub> =0;	550			V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =10mA; I <sub>C</sub> =0;	7			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =3.2A; I <sub>B</sub> =0.8A			2.0	V
V <sub>BEsat</sub>	Base-emitter saturation voltage	I <sub>C</sub> =3.2A; I <sub>B</sub> =0.8A			1.3	V
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =1300V; I <sub>E</sub> =0			1.0	mA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =5V; I <sub>C</sub> =0			0.1	mA
h <sub>FE</sub>	DC current gain	I <sub>C</sub> =1.5A ; V <sub>CE</sub> =5V	8			

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PACKAGE OUTLINE

