

## Silicon NPN Power Transistors

## BU2525AF

## DESCRIPTION

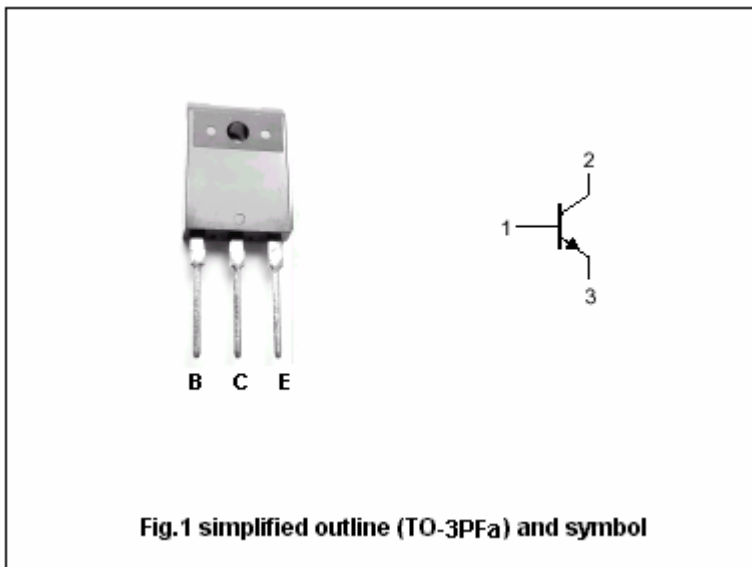
- With TO-3PFa package
- High voltage
- High speed switching

## APPLICATIONS

- For use in horizontal deflection circuits of large screen colour TV receivers.

## PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{CBO}$	Collector-base voltage	Open emitter	1500	V
$V_{CEO}$	Collector-emitter voltage	Open base	800	V
$I_C$	Collector current (DC)		12	A
$I_{CM}$	Collector current -peak		30	A
$I_B$	Base Collector current (DC)		8	A
$I_{BM}$	Base current -peak		12	A
$P_{tot}$	Total power dissipation	$T_C=25^\circ\text{C}$	45	W
$T_j$	Junction temperature		150	$^\circ\text{C}$
$T_{stg}$	Storage temperature		-65~150	$^\circ\text{C}$

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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, L=25mH	800			V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =1mA ; I <sub>C</sub> =0	7.5	13.5		V
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =8A ; I <sub>B</sub> =1.6 A			5.0	V
V <sub>BEsat</sub>	Base-emitter saturation voltage	I <sub>C</sub> =8A ; I <sub>B</sub> =1.6 A			1.1	V
I <sub>CES</sub>	Collector cut-off current	V <sub>CE</sub> =BV <sub>CES</sub> ; V <sub>BE</sub> =0 T <sub>j</sub> =125 °C			1.0 2.0	mA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =7.5V; I <sub>C</sub> =0			1.0	mA
h <sub>FE-1</sub>	DC current gain	I <sub>C</sub> =0.1A ; V <sub>CE</sub> =5V		13		
h <sub>FE-2</sub>	DC current gain	I <sub>C</sub> =8A ; V <sub>CE</sub> =5V	5	7	9.5	
C <sub>C</sub>	Collector capacitance	I <sub>E</sub> =0; f=1MHz; V <sub>CB</sub> =10V		145		pF

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PACKAGE OUTLINE



Fig.2 Outline dimensions (unindicated tolerance:±0.30mm)