# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

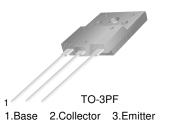


## FAIRCHILD

SEMICONDUCTOR®

## BU508AF

## **TV Horizontal Output Applications**



## NPN Triple Diffused Planar Silicon Transistor

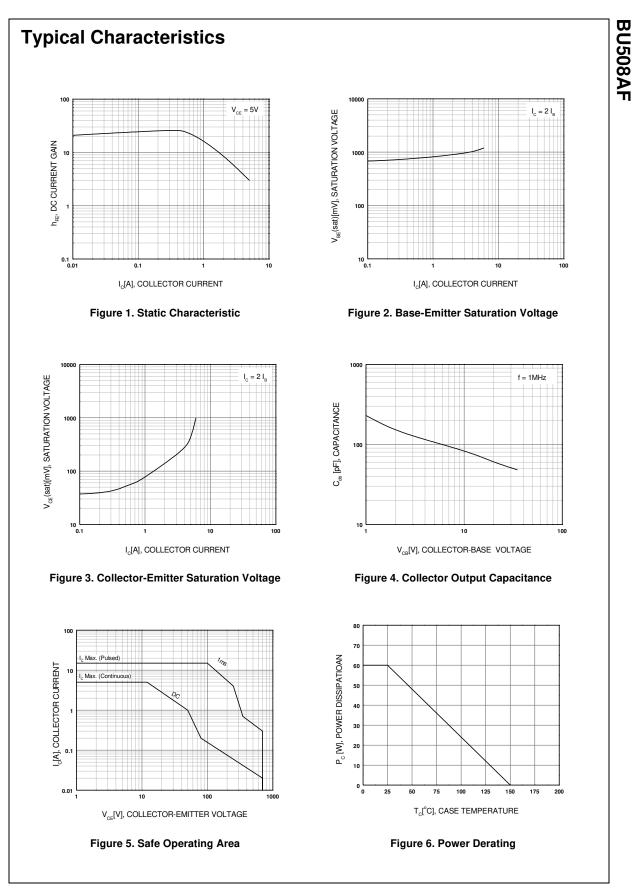
Symbol	Parameter	Value	Units	
V <sub>CES</sub>	Collector-Emitter Voltage	1500	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	700	V	
V <sub>EBO</sub>	Emitter-Base Voltage	5	V	
I <sub>C</sub>	Collector Current (DC)	5	А	
I <sub>CP</sub>	*Collector Current (Pulse)	15	А	
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	60	W	
TJ	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	- 65 ~ 150	°C	

## Absolute Maximum Ratings ${\rm T_{C}=25^{\circ}C}$ unless otherwise noted

## Electrical Characteristics $T_{C}=25^{\circ}C$ unless otherwise noted

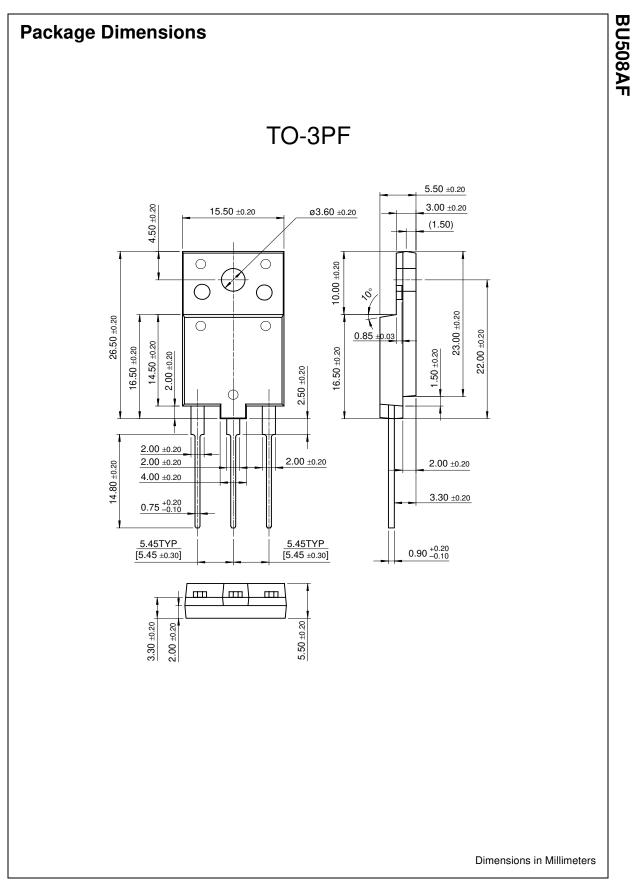
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V <sub>CEO</sub> (sus)	* Collector-Emitter Sustaining Voltage	I <sub>C</sub> = 100mA, I <sub>B</sub> = 0	700			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = 10mA, I <sub>C</sub> = 0	5			V
I <sub>CES</sub>	Collector Cut-off Current	$V_{CE} = 1500V, V_{BE} = 0$			1	mA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = 5V, I_{C} = 0$			10	mA
h <sub>FE</sub>	* DC Current Gain	$V_{CE} = 5V, I_{C} = 4.5A$	2.25			
V <sub>CE</sub> (sat)	* Collector-Emitter Saturation Voltage	I <sub>C</sub> = 4.5A, I <sub>B</sub> = 2A			1	V
V <sub>BE</sub> (sat)	* Base-Emitter Saturation Voltage	I <sub>C</sub> = 4.5A, I <sub>B</sub> = 2A			1.5	V

\* Pulse Test: PW = 300µs, duty cycle = 1.5% Pulsed



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Rev. B, December 2002



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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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