

SEMICONDUCTOR®

FJAF6815

High Voltage Color Display Horizontal Deflection Output

- High Collector-Base Breakdown Voltage : BV_{CBO} = 1500V
- Low Saturation Voltage : V_{CE}(sat) = 3V (Max.)
- For Color Monitor



NPN Triple Diffused Planar Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Rating	Units	
V _{CBO}	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	750	V	
V _{EBO}	Emitter-Base Voltage	6	V	
I _C	Collector Current (DC)	15	A	
I _{CP} *	Collector Current (Pulse)	25	A	
P _C	Collector Dissipation	60	W	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

* Pulse Test: PW=300µs, duty Cycle=2% Pulsed

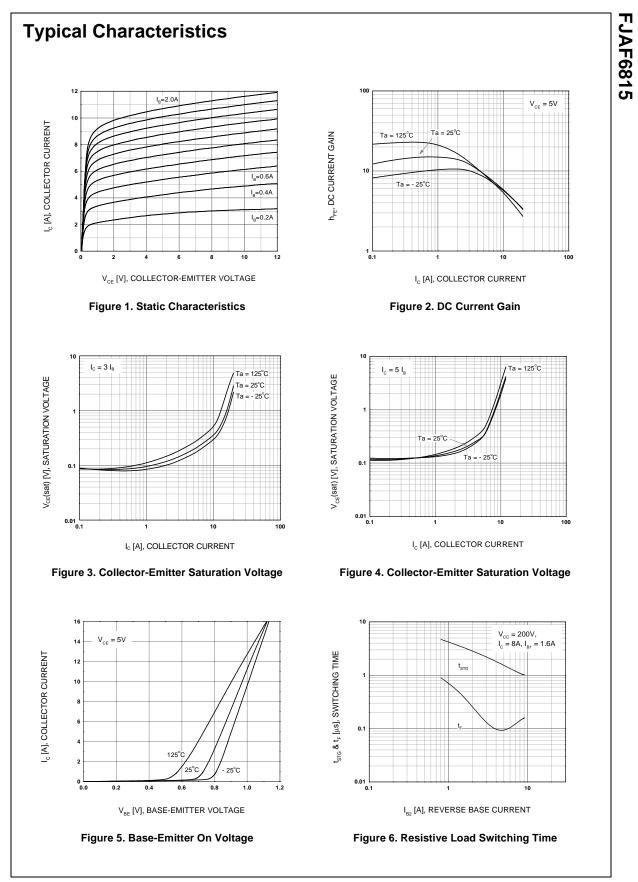
Electrical Characteristics T_C=25°C unless otherwise noted

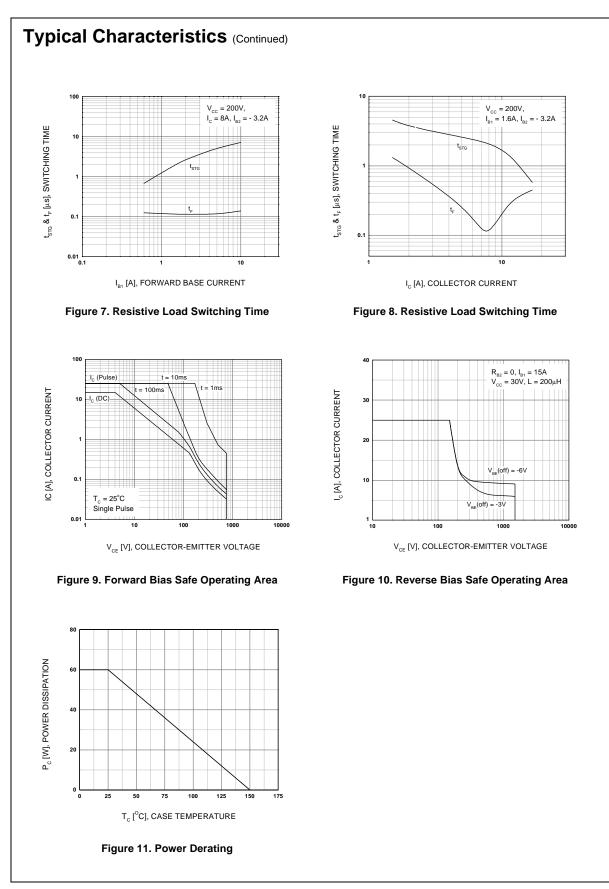
Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
I _{CES}	Collector Cut-off Current	V _{CB} =1400V, R _{BE} =0			1	mA
I _{CBO}	Collector Cut-off Current	V _{CB} =800V, I _E =0			10	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =4V, I _C =0			1	mA
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =500μA, I _E =0	1500			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =5mA, I _B =0	750			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =500μA, I _C =0	6			V
h _{FE1} h _{FE2}	DC Current Gain	V _{CE} =5V, I _C =1A V _{CE} =5V, I _C =10A	10 5		8	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10A, I _B =2.5A			3	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =10A, I _B =2.5A			1.5	V
t _{STG} *	Storage Time	V_{CC} =200V, I_{C} =8A, R_{L} =25 Ω			3	μs
t _F *	Fall Time	I _{B1} =1.6A, I _{B2} = - 3.2A			0.2	μs

* Pulse Test: PW=20µs, duty Cycle=1% Pulsed

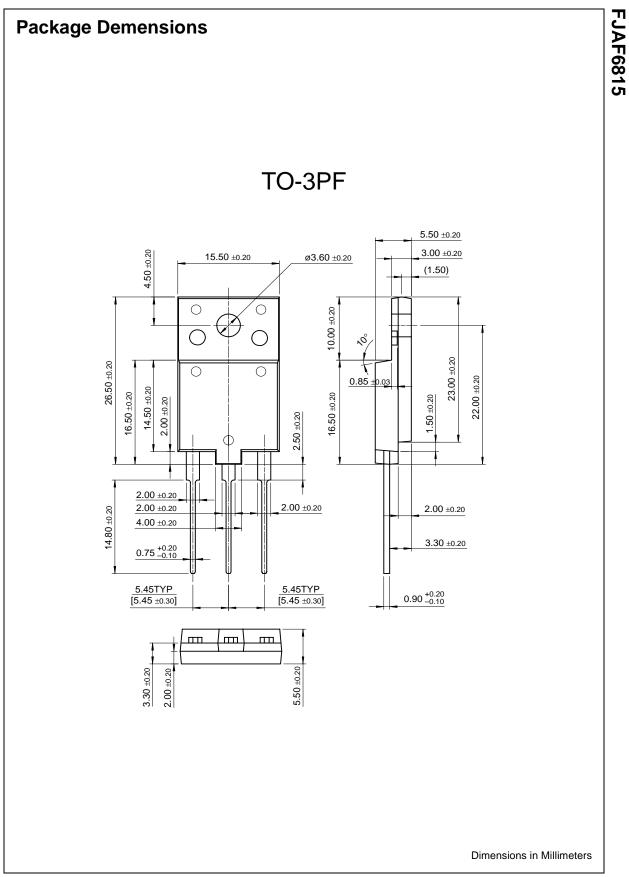
Thermal Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Тур	Max	Units
$R_{\theta j C}$	Thermal Resistance, Junction to Case		2.08	°C/W





FJAF6815



TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

ACEx[™] Bottomless[™] CoolFET[™] CROSSVOLT[™] DenseTrench[™] DOME[™] EcoSPARK[™] E²CMOS[™] EnSigna[™] FACT[™] FACT Quiet Series[™] FAST[®] FASTr[™] FRFET[™] GlobalOptoisolator[™] GTO[™] HiSeC[™] ISOPLANAR[™] LittleFET[™] MicroFET[™] MICROWIRE[™] OPTOLOGIC[™] OPTOPLANAR[™] PACMAN[™] POP[™] PowerTrench[®] QFET[™] QS[™] QT Optoelectronics[™] Quiet Series[™] SLIENT SWITCHER[®] SMART START[™] Stealth[™] SuperSOT[™]-3 SuperSOT[™]-6 SuperSOT[™]-8 SyncFET[™] TinyLogic[™] UHC[™] UltraFET[®] VCX[™]

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

Fairchild Semiconductor				sSEARCH]		tric <u>Cro</u>		20 Applica
find products	Home >> Find produ	ucts >>						
Products groups Analog and Mixed Signal	FJAF6815 NPN Triple Diffused	d Planar Silicon Tran		sheet		Requ	ed Links	
Discrete Interface Logic Microcontrollers		status/pricing/packag	mg —	vnload this sheet F		Dotte	to order pro	
Non-Volatile Memory	Features			ail this datash	<u>eet</u>	Suppo Dotte	nd line	iold sales
Optoelectronics Markets and applications	High Voltage Color Display Horizontal Deflection Output		This pagePrint ve		repres	Distributor and field sa representatives Dotted line Quality and reliability		
<u>New products</u> <u>Product selection and</u> <u>parametric search</u>	 High Collector-Base Breakdown Voltage (BV_{CBO} =1500V) Low Saturation Voltage : V_{CE} (sat) = 					Dotte Desig		
<u>Cross-reference</u> <u>search</u>	3V (Max.) • For Color Mo	onitor						
technical information buy products	back to top							
technical support	Product status/pricin	g/packaging						
my Fairchild	Product	Product status	Pricing*	Package ty	ype	Leads	Packing	method

\$1.91

<u>TO-3PF</u>

3

RAIL

company

* 1,000 piece Budgetary Pricing

back to top

FJAF6815TU

<u>Home</u> | <u>Find products</u> | <u>Technical information</u> | <u>Buy products</u> | <u>Support</u> | <u>Company</u> | <u>Contact us</u> | <u>Site index</u> | <u>Privacy policy</u>

Full Production

© Copyright 2002 Fairchild Semiconductor