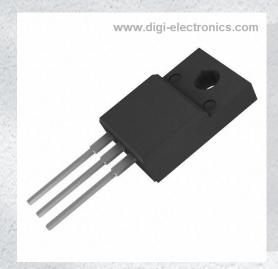


FJAF6910TU Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number FJAF6910TU-DG

Manufacturer onsemi

Manufacturer Product Number FJAF6910TU

Description TRANS NPN 800V 10A TO3PF

Detailed Description Bipolar (BJT) Transistor NPN 800 V 10 A 60 W Throu

gh Hole TO-3PF



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
FJAF6910TU	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	10 A
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, Ic:
800 V	3V @ 1.5A, 6A
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
1mA	7 @ 6A, 5V
Power - Max:	Frequency - Transition:
60 W	
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-3P-3 Full Pack	TO-3PF
Base Product Number:	
FJAF6910	

Environmental & Export classification

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
FAR99	8541 29 0095



FJAF6910

High Voltage Color Display Horizontal Deflection Output

- High Collector-Base Breakdown Voltage : $BV_{CBO} = 1700V$
- Low Saturation Voltage : V_{CE}(sat) = 3V (Max.)
- High Switching Speed: t_F(typ.) =0.15μs
- 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	1700	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current (DC)	10	А
I _{CP} *	Collector Current (Pulse)	20	А
P _C	Collector Power Dissipation	60	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

^{*} Pulse Test: Pulse Width=5ms, Duty Cycle < 10%

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	1700			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =5mA, I _B =0	800			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =500μA, I _C =0	6			V
h _{FE1}	DC Current Gain	V _{CE} =5V, I _C =1A	10			
h _{FE2}		V _{CE} =5V, I _C =6A	7		10	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =6A, I _B =1.5A			3	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =6A, I _B =1.5A			1.5	V
t _{STG} *	Storage Time	V_{CC} =200V, I_{C} =6A, R_{L} =33 Ω			4	μs
t _F *	Fall Time	I _{B1} =1.2A, I _{B2} = - 2.4A			0.3	μs

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

Thermal Characteristics T_C=25°C unless otherwise noted

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

Typical Characteristics

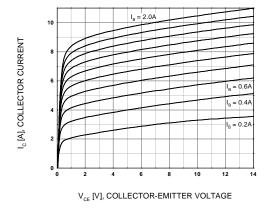


Figure 1. Static Characteristic

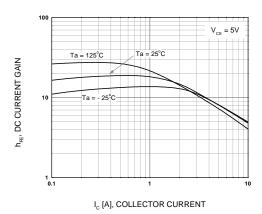


Figure 2. DC current Gain

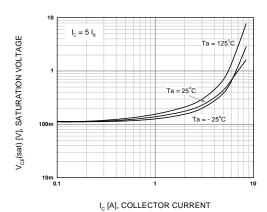


Figure 3. Collector-Emitter Saturation Voltage

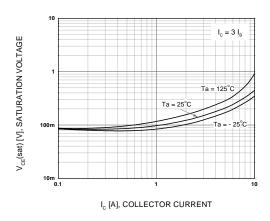


Figure 4. Collector-Emitter Saturation Voltage

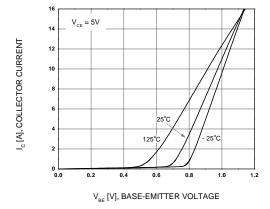


Figure 5. Base-Emitter On Voltage

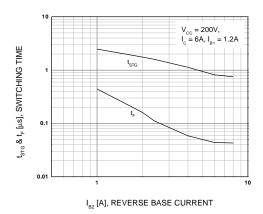


Figure 6. Resistive Load Switching Time

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Typical Characteristics (Continued)

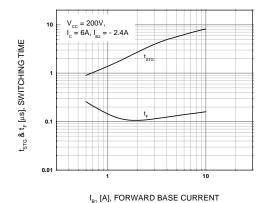


Figure 7. Resistive Load Switching Time

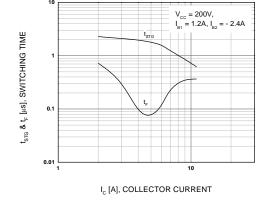


Figure 8. Resistive Load Switching Time

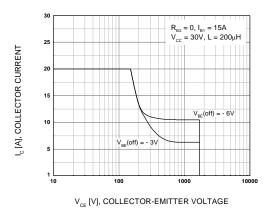


Figure 9. Reverse Bias Safe Operating Area

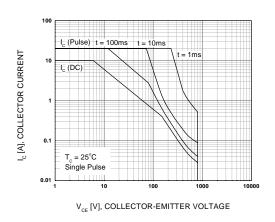


Figure 10. Forward Bias Safe Operating Area

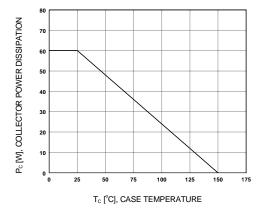
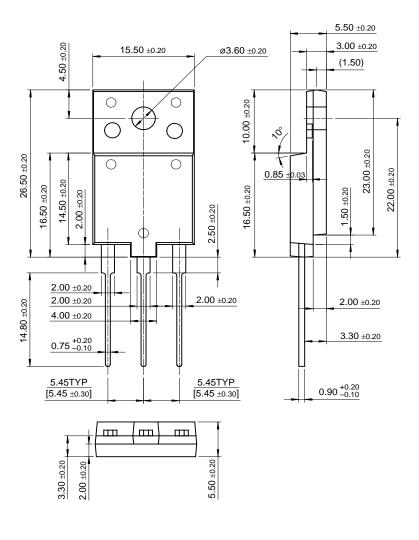


Figure 11. Power Derating

Package Demensions

TO-3PF



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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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