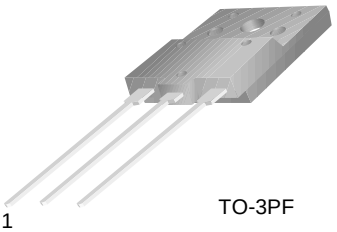
FAIRCHILD
SEMICONDUCTOR®

FJAF6806D

High Voltage Color Display Horizontal Deflection Output (Damper Diode Built In)

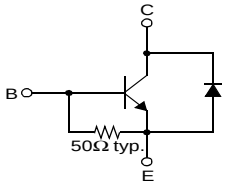
- High Collector-Base Breakdown Voltage : BV_{CBO} = 1500V
- High Switching Speed : t_F(typ.) =0.1μs
- For Color TV



TO-3PF

1
1.Base 2.Collector 3.Emitter

Equivalent Circuit



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)	6	A
I_{CP}*	Collector Current (Pulse)	12	A
P_C	Collector Dissipation	50	W
T_J	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	Typ	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	μA
I_{EBO}	Emitter Cut-off Current	V_{EB}=4V, I_C=0	40		200	mA
BV_{EBO}	Base-Emitter Breakdown Voltage	I_E=300mA, I_C=0	6			V
h_{FE1}	DC Current Gain	V_{CE}=5V, I_C=1A	8			
h_{FE2}		V_{CE}=5V, I_C=4A	4		7	
V_{CE}(sat)	Collector-Emitter Saturation Voltage	I_C=4A, I_B=1A			5	V
V_{BE}(sat)	Base-Emitter Saturation Voltage	I_C=4A, I_B=1A			1.5	V
V_F	Damper Diode Turn On Voltage	I_F = 4.5A			2	V
t_{STG}*	Storage Time	V_{CC}=200V, I_C=4A, R_L=50Ω			3	μs
t_F*	Fall Time	I_{B1}=1.0A, I_{B2}= - 2.0A			0.2	μs

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

Thermal Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Typ	Max	Units
$R_{\theta jC}$	Thermal Resistance, Junction to Case		2.5	°C/W

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Typical Characteristics

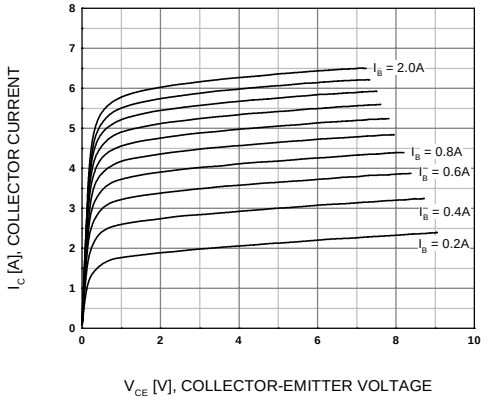


Figure 1. Static Characteristic

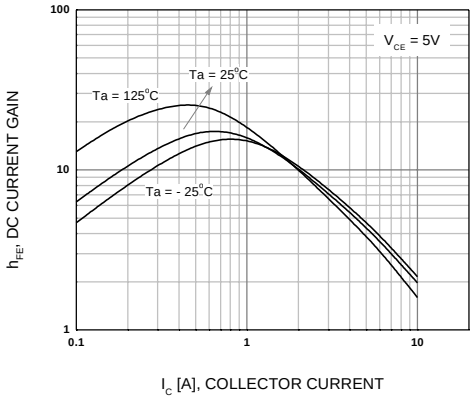


Figure 2. DC current Gain

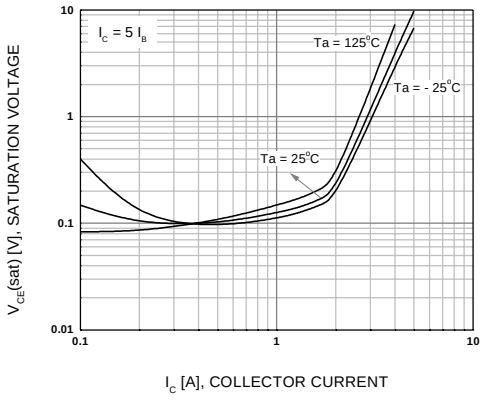


Figure 3. Collector-Emitter Saturation Voltage

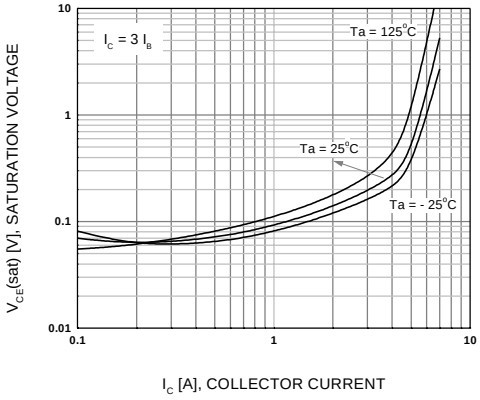


Figure 4. Collector-Emitter Saturation Voltage

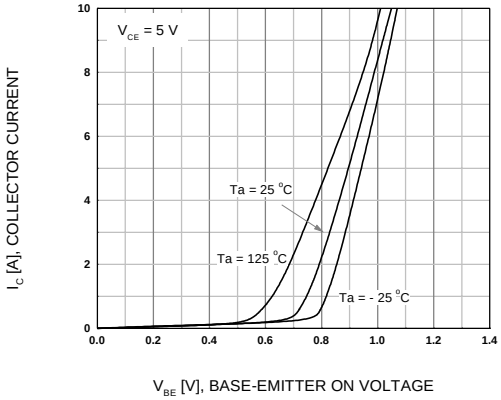


Figure 5. Base-Emitter On Voltage

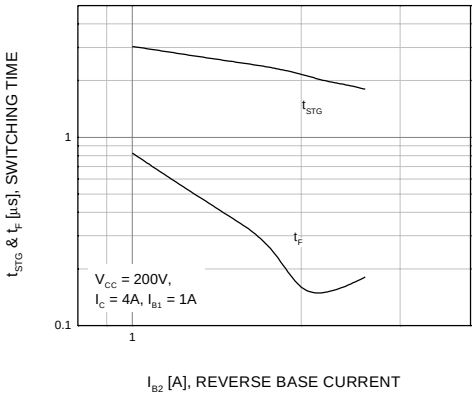


Figure 6. Resistive Load Switching Time

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Typical Characteristics (Continued)

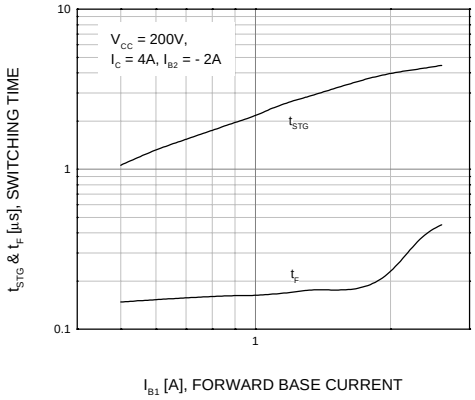


Figure 7. Resistive Load Switching Time

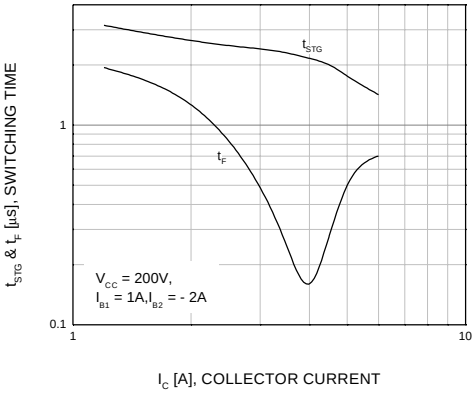


Figure 8. Resistive Load Switching Time

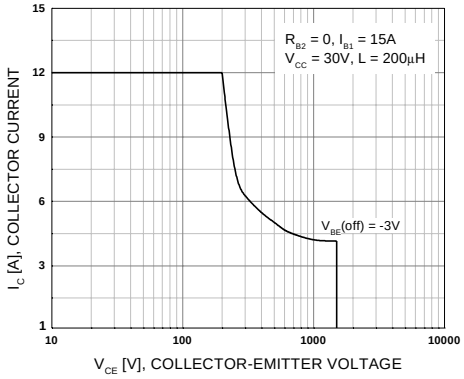


Figure 9. Reverse Bias Safe Operating Area

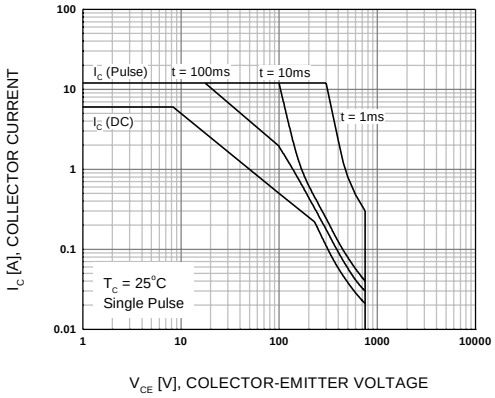


Figure 10. Forward Bias Safe Operating Area

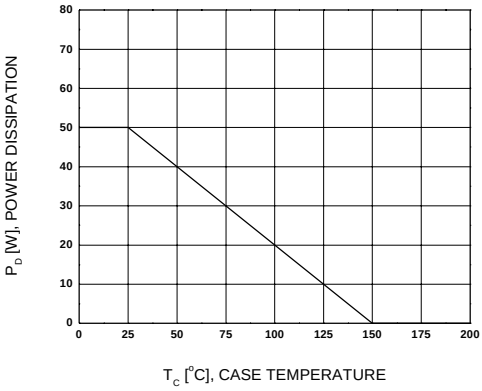
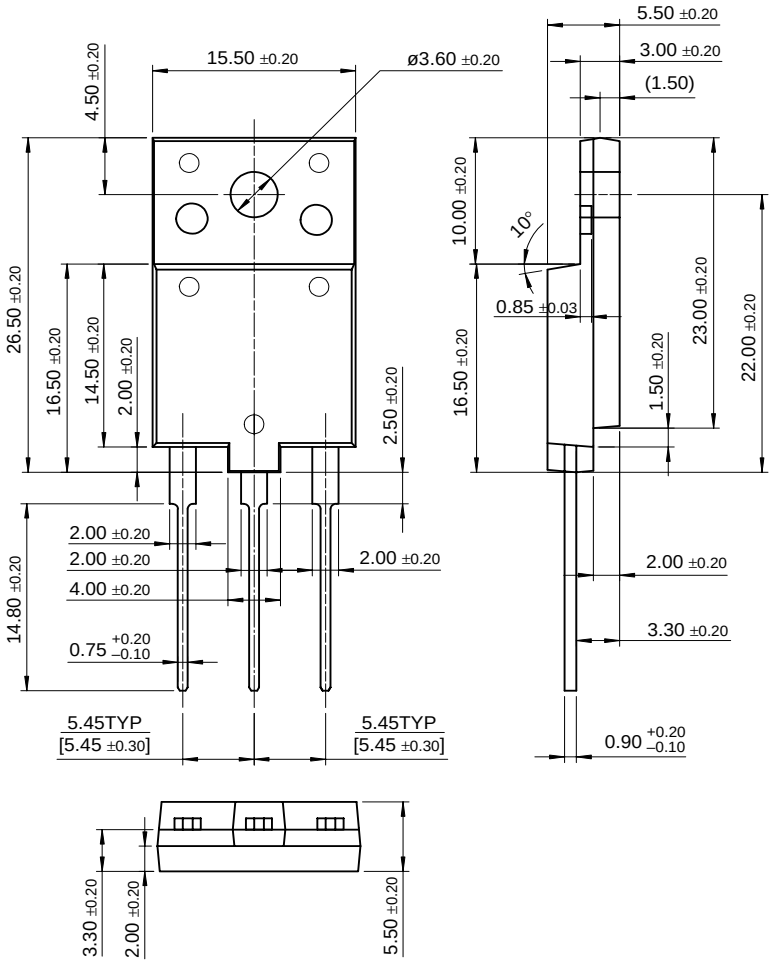


Figure 11. Power Derating

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Package Demensions

TO-3PF



Dimensions in Millimeters

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EcoSPARK™	I^2C™	PowerTrench®	SuperSOT™-8	
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FACT™	MicroFET™	QT Optoelectronics™	TruTranslation™	
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