FAIRCHILD

SEMICONDUCTOR

FJAF6916

High Voltage Color Display Horizontal **Deflection Output**

- High Collector-Base Breakdown Voltage : BV_{CBO} = 1700V
 Low Saturation Voltage : V_{CE}(sat) = 3V (Max.)
- For Color Monitor



1.Base 2.Collector 3.Emitter

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)	16	А
I _{CP} *	Collector Current (Pulse)	30	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

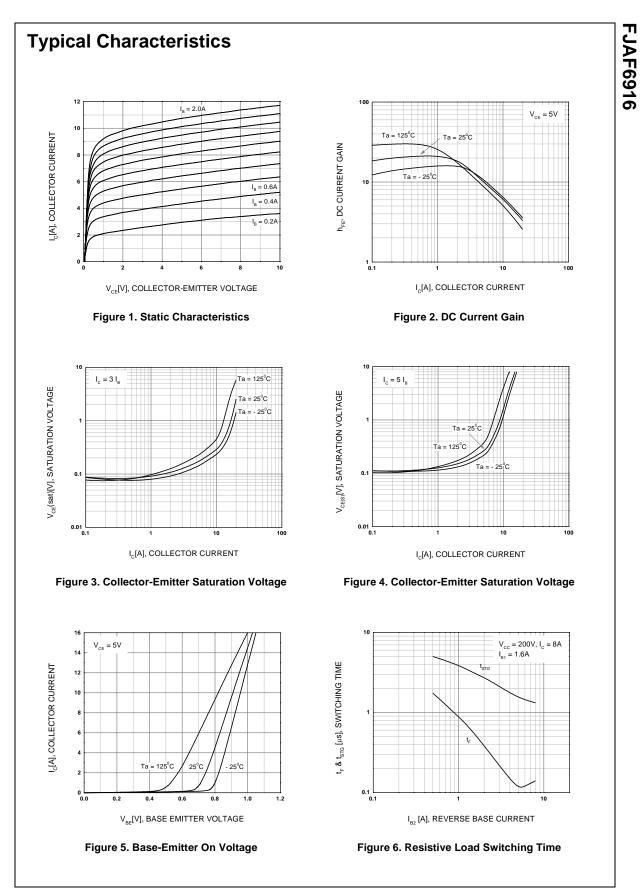
Electrical Characteristics T_C=25°C unless otherwise noted

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	μA
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 =8.5A	6		9	
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			4	μs
t _F *	Fall Time	I _{B1} =1.6A, I _{B2} =-3.2A			0.3	μs

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

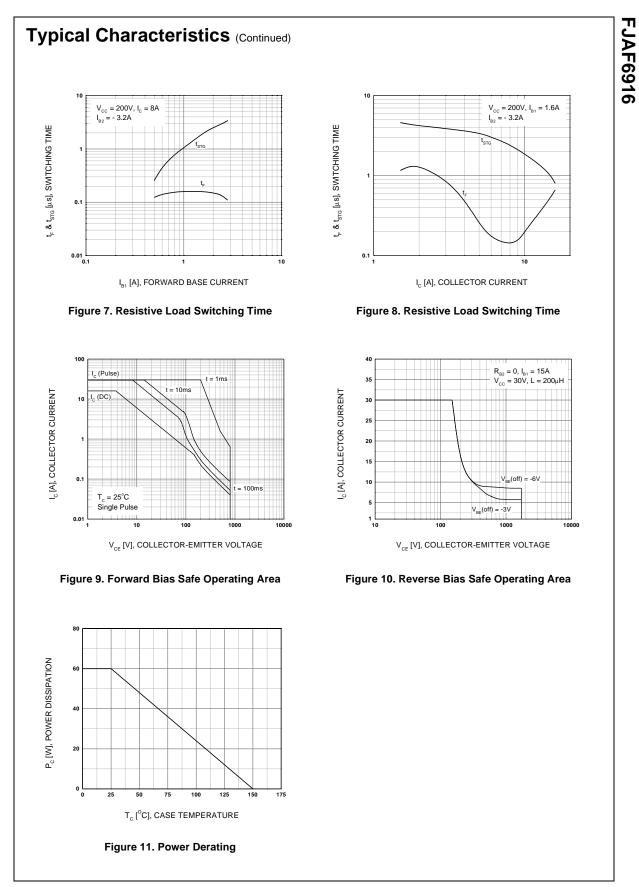
Thermal Characteristics T_C=25°C unless otherwise noted

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



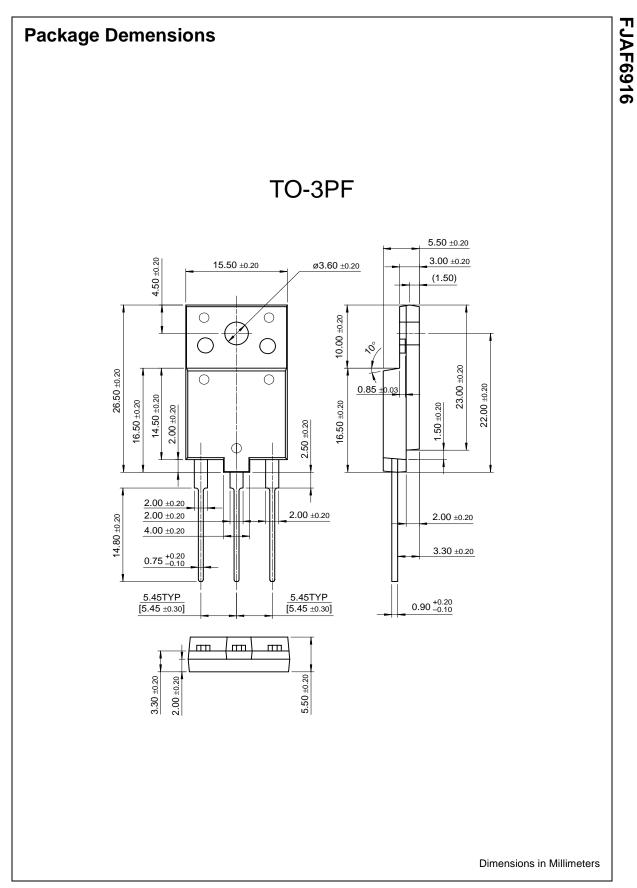
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Rev. B, August 2001



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