FJAF6910 FAIRCHILD SEMICONDUCTOR® **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

TO-3PF

1.Base 2.Collector 3.Emitter

NPN Triple Diffused Planar Silicon Transistor

| Absolute Maximum F | 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%

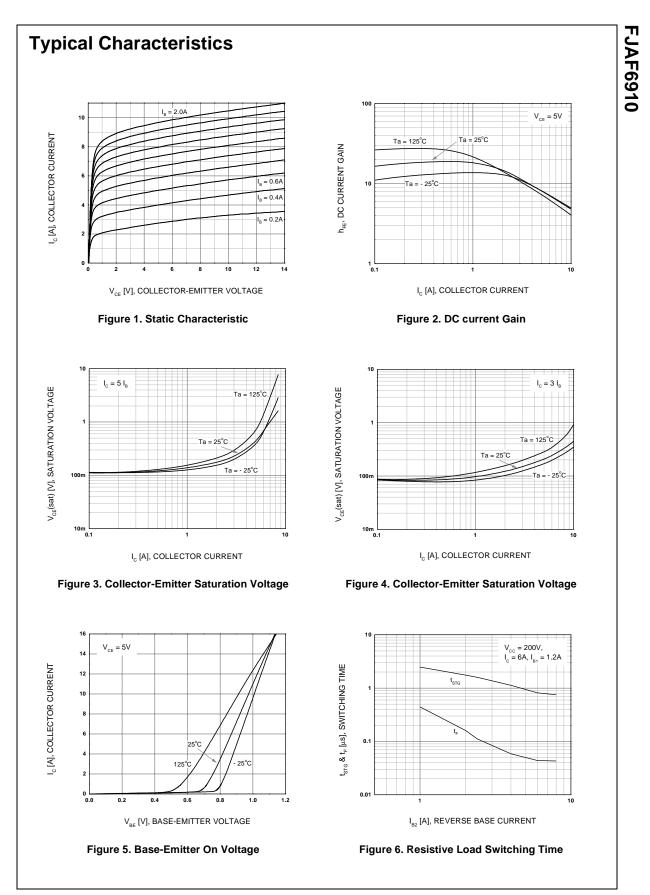
Electrical Characteristics T_C=25°C unless otherwise noted

| 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} h _{FE2} | DC Current Gain | V _{CE} =5V, I _C =1A V _{CE} =5V, I _C =6A | 10 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 |

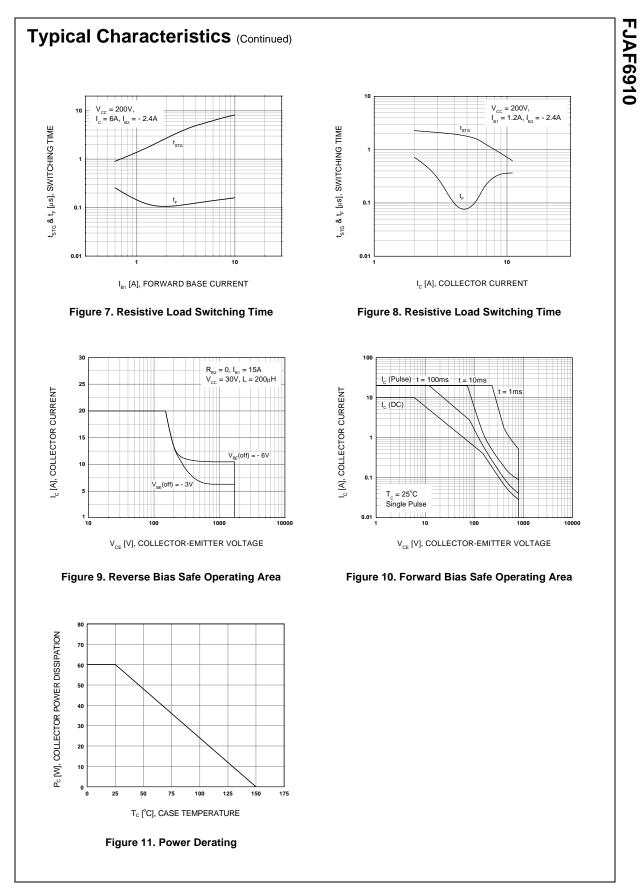
* Pulse Test: PW=20µs, duty Cycle=1% Pulsed

Thermal Characteristics T_C=25°C unless otherwise noted

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

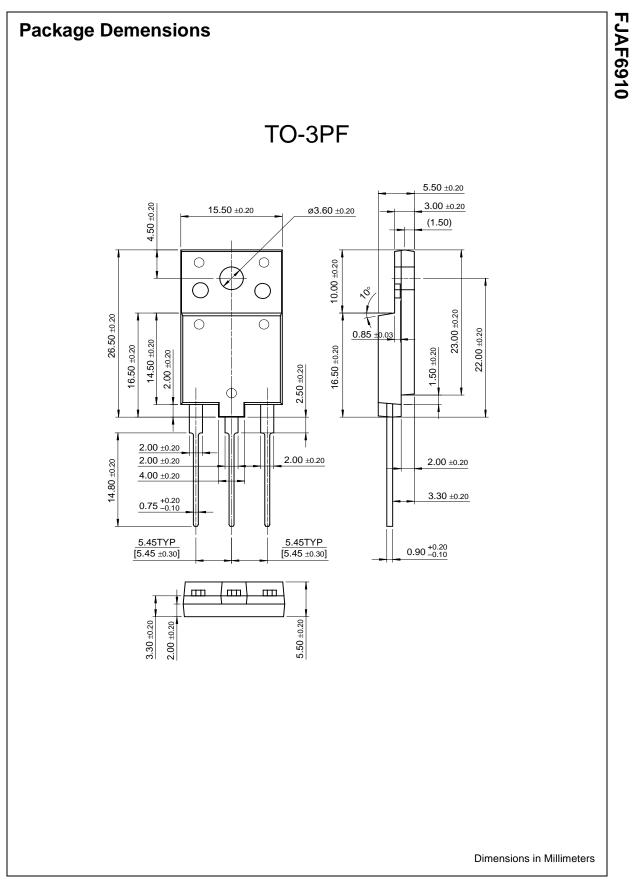


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|--------------------------|---------------------------|---|
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