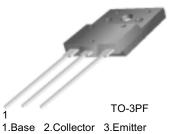
FAIRCHILD

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

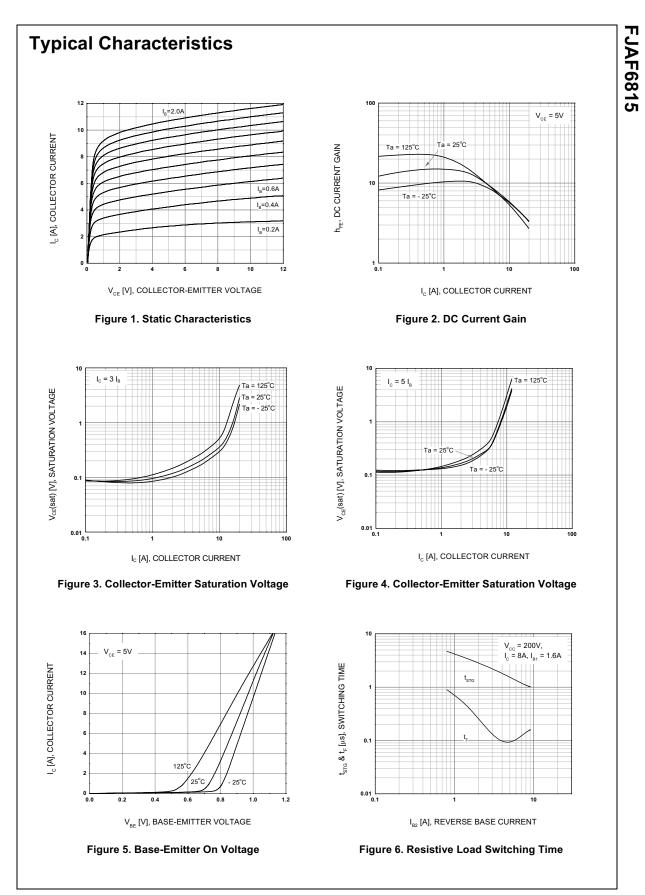
Electrical Characteristics T_C=25°C unless otherwise noted

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

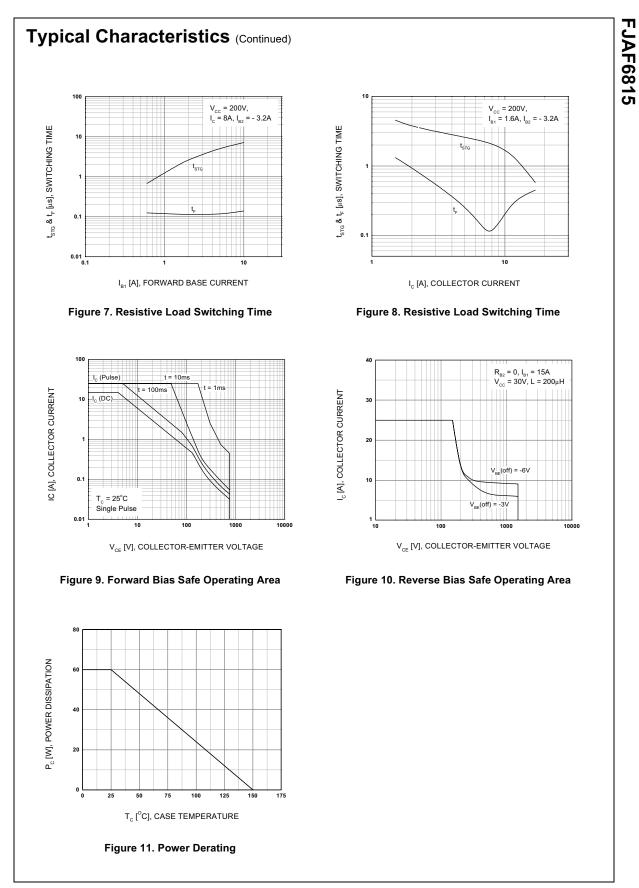
* Pulse Test: PW=20µs, duty Cycle=1% Pulsed

Thermal Characteristics T_C=25°C unless otherwise noted

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

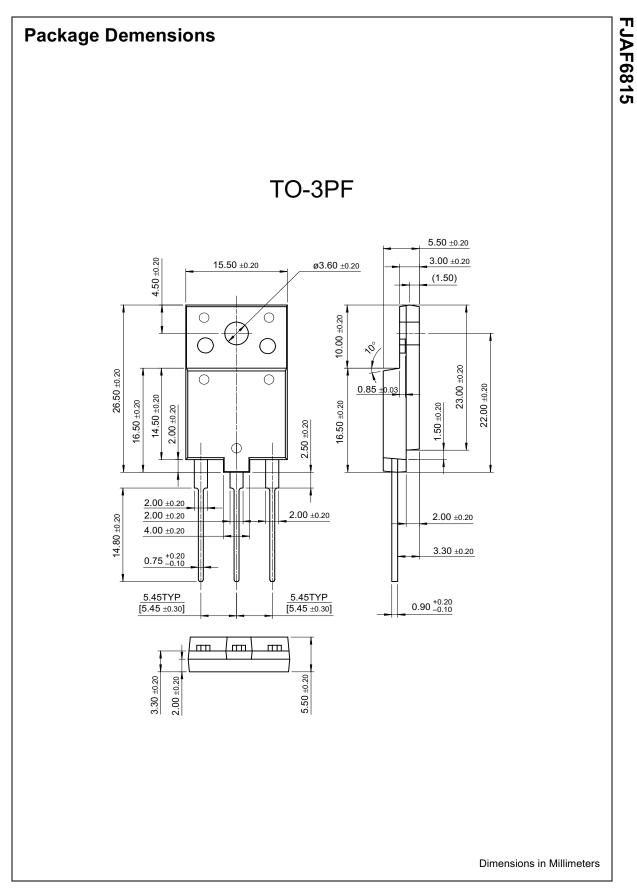


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| E ² CMOS™ | LittleFET™ | Quiet Series™ | VCX™ |
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| FACT Quiet Series™ | OPTOLOGIC™ | Stealth™ | |

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