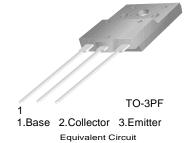
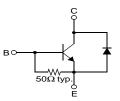


FJAF6806D

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





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 | Α |
| I _{CP} * | Collector Current (Pulse) | 12 | Α |
| 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 | 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 | 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} =50 Ω | | | 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 | Тур | Max | Units |
|-----------------|--------------------------------------|-----|-----|-------|
| $R_{\theta jC}$ | Thermal Resistance, Junction to Case | | 2.5 | °C/W |

Typical Characteristics

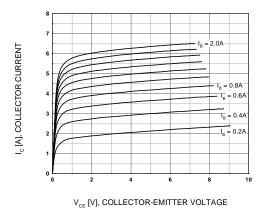


Figure 1. Static Characteristic

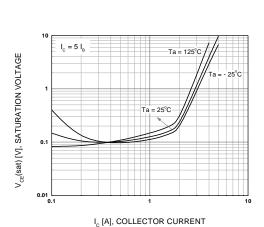


Figure 3. Collector-Emitter Saturation Voltage

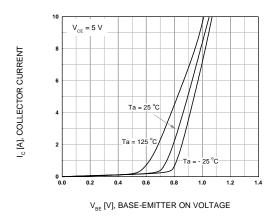


Figure 5. Base-Emitter On Voltage

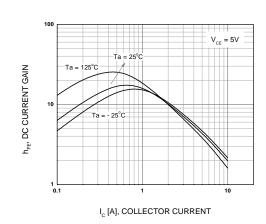


Figure 2. DC current Gain

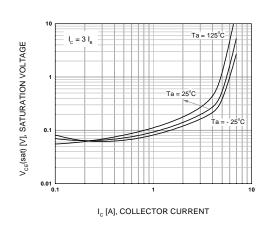


Figure 4. Collector-Emitter Saturation Voltage

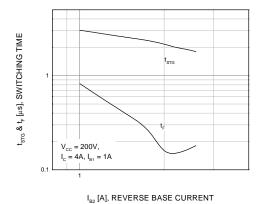


Figure 6. Resistive Load Switching Time

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Typical Characteristics (Continued)

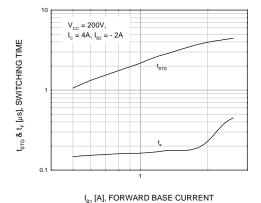


Figure 7. Resistive Load Switching Time

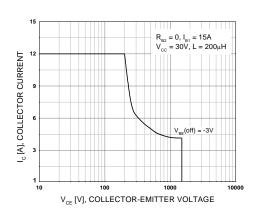


Figure 9. Reverse Bias Safe Operating Area

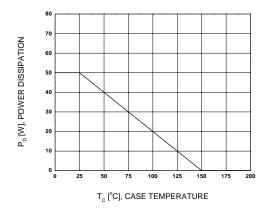


Figure 11. Power Derating

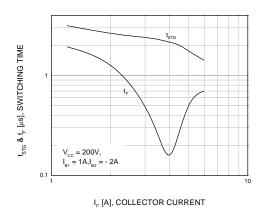


Figure 8. Resistive Load Switching Time

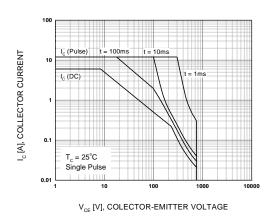
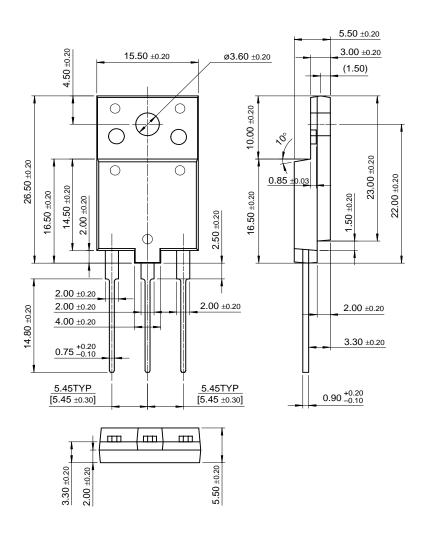


Figure 10. Forward Bias Safe Operating Area

Package Demensions

TO-3PF



Dimensions in Millimeters

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