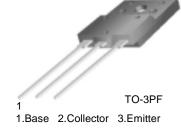


FJAF6812

High Voltage Color Display Horizontal Deflection Output

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



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)	12	Α
I _{CP} *	Collector Current (Pulse)	24	Α
P _C	Collector Dissipation	60	W
T _J	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	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =4V, I _C =0			1	mA
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		40	
h_{FE2}		V_{CE} =5V, I_{C} =8A	5		8	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =8A, I _B =2A			3	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =8A, I _B =2A			1.5	V
t _{STG} *	Storage Time	V_{CC} =200V, I_{C} =7A, R_{L} =30 Ω			3	μs
t _F *	Fall Time	I _{B1} = 1.4A, I _{B2} = - 2.8A			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	1.4	2.08	°C/W

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Typical Characteristics

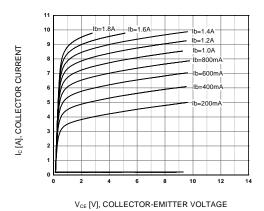


Figure 1. Static Characteristics

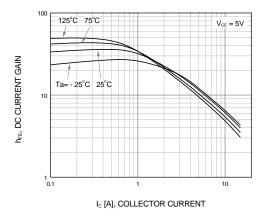


Figure 2. DC Current Gain

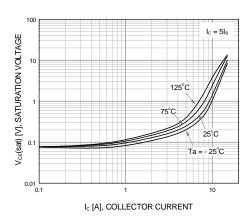


Figure 3. Collector-Emitter Saturation Voltage

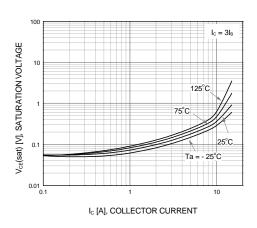


Figure 4. Collector-Emitter Saturation Voltage

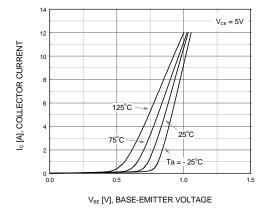


Figure 5. Base-Emitter On Voltage

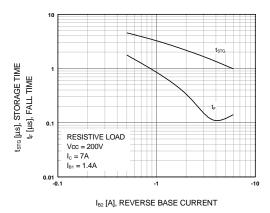


Figure 6. Switching Time

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Typical Characteristics (Continued)

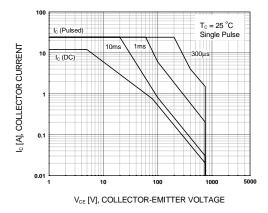


Figure 7. Forward Bias Safe Operating Area

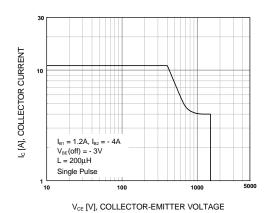


Figure 8. Reverse Bias Safe Operating Area

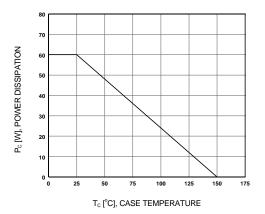
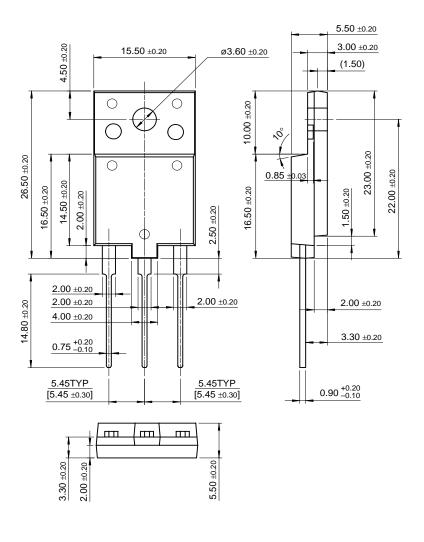


Figure 9. Power Derating

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Package Demensions

TO-3PF



Dimensions in Millimeters

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