

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



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)	10	Α
I _{CP} *	Collector Current (Pulse)	20	Α
P _C	Collector Power Dissipation	60	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

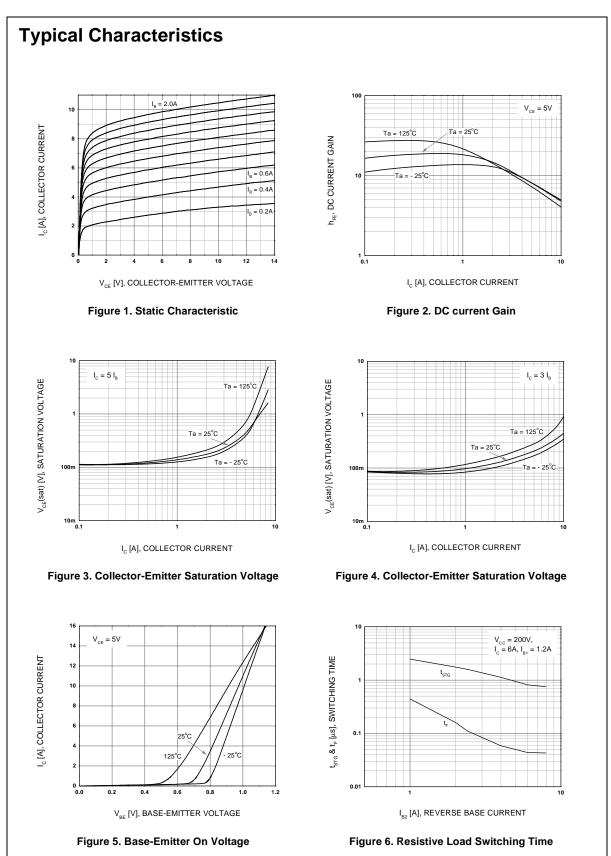
Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
I _{CES}	Collector Cut-off Current	V _{CB} =1400V, R _{BE} =0			1	mA
I _{CBO}	Collector Cut-off Current	V _{CB} =800V, I _E =0			10	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =4V, I _C =0			1	mA
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =500μA, 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 =6A	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
$R_{\theta jC}$	Thermal Resistance, Junction to Case		2.08	°C/W

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Typical Characteristics (Continued)

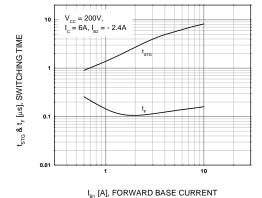


Figure 7. Resistive Load Switching Time

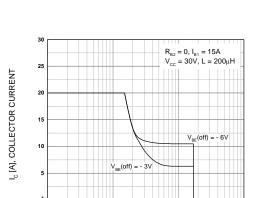


Figure 9. Reverse Bias Safe Operating Area

 $\mathbf{V}_{\mathtt{CE}}\left[\mathbf{V}\right]$, COLLECTOR-EMITTER VOLTAGE

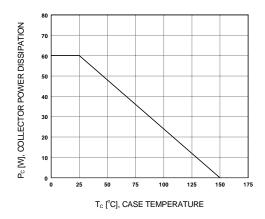


Figure 11. Power Derating

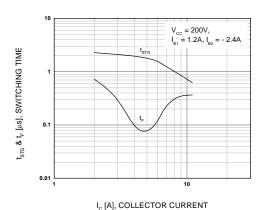


Figure 8. Resistive Load Switching Time

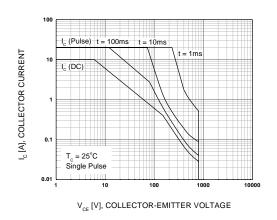
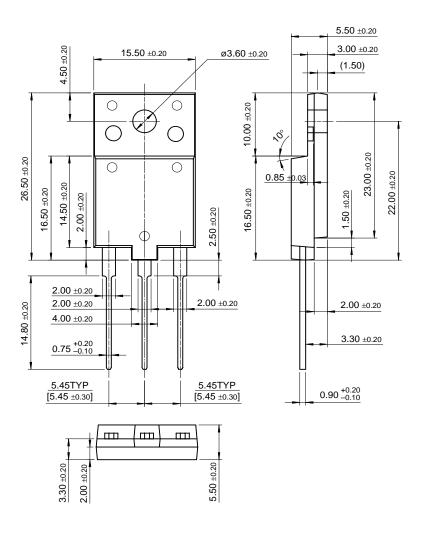


Figure 10. Forward Bias Safe Operating Area

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Package Demensions

TO-3PF



Dimensions in Millimeters

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