

FJL6920

High Voltage Color Display Horizontal Deflection Output

- High Collector-Base Breakdown Voltage : BV_{CBO} = 1700V
 Low Saturation Voltage : V_{CE}(sat) = 3V (Max.)
- For Color Monitor



1.Base 2.Collector 3.Emitter

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)	20	А
I _{CP} *	Collector Current (Pulse)	30	А
P _C	Collector Dissipation	200	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 _{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	8			
h _{FE2}		V _{CE} =5V, I _C =11A	5.5		8.5	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =11A, I _B =2.75A			3	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =11A, I _B =2.75A			1.5	V
t _{STG} *	Storage Time	V_{CC} =200V, I_{C} =10A, R_{L} =20 Ω			3	μs
t _F *	Fall Time	I _{B1} =2.0A, I _{B2} = - 4.0A		0.15	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
ReiC	Thermal Resistance, Junction to Case		0.625	°C/W

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Typical Characteristics

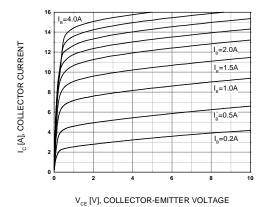


Figure 1. Static Characteristics

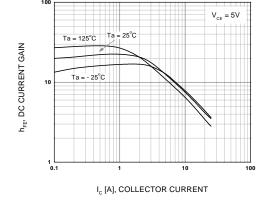


Figure 2. DC Current Gain

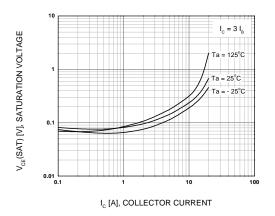


Figure 3. Collector-Emitter Saturation Voltage

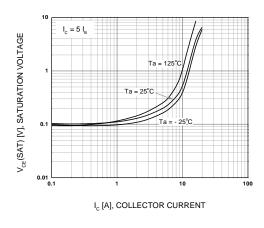


Figure 4. Collector-Emitter Saturation Voltage

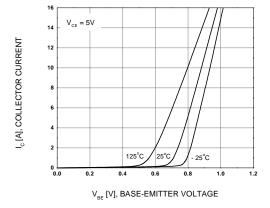


Figure 5. Base-Emitter On Voltage

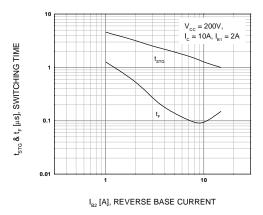


Figure 6. Resistive Load Switching Time

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Typical Characteristics (Continued)

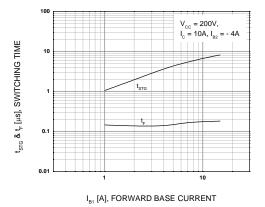


Figure 7. Resistive Load Switching Time

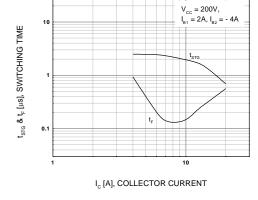


Figure 8. Resistive Load Switching Time

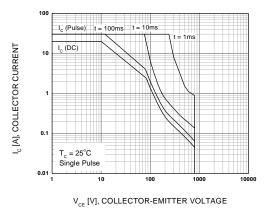


Figure 9. Forward Bias Safe Operating Area

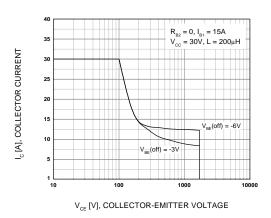


Figure 10. Reverse Bias Safe Operating Area

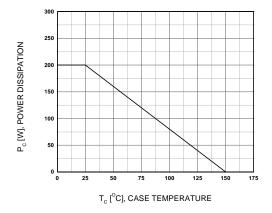
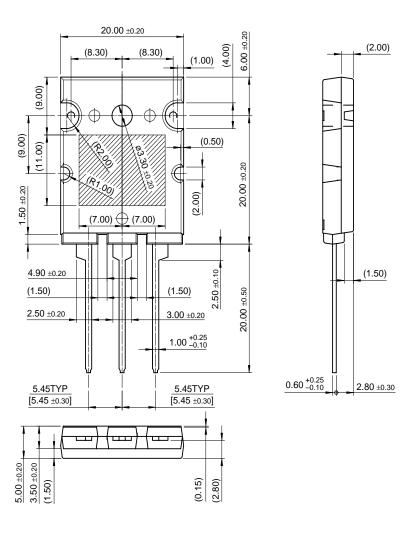


Figure 11. Power Derating

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Package Demensions

TO-264



Dimensions in Millimeters

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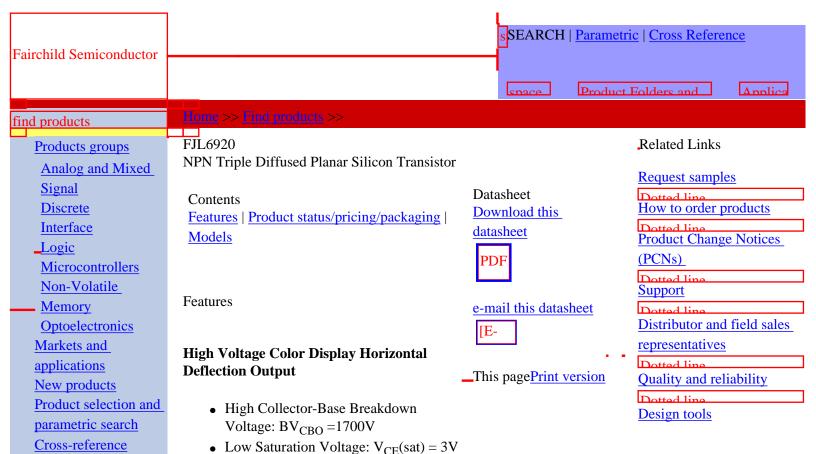
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- 2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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(Max.)

Product status/pricing/packaging

• For Color Monitor

Product	Product status	Pricing*	Package type	Leads	Packing method
FJL6920TU	Full Production	\$2.47	<u>TO-264</u>	3	RAIL
FJL6920YDTU	Full Production	N/A	<u>TO-264</u>	3	RAIL

^{* 1,000} piece Budgetary Pricing

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Models

Package & leads Condition		Temperature range	Software version	on Revision date	
PSPICE					
TO-264-3	Electrical	-25°C to 125°C	9.2	Sep 10, 2001	

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