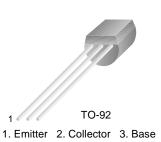
FAIRCHILD

SEMICONDUCTOR®

FJN965

For Output Amplifier of Electronic Flash Unit

- Low Collector-Emitter Saturation Voltage
- High Performance at Low Supply Voltage



NPN Epitaxial Silicon Transistor

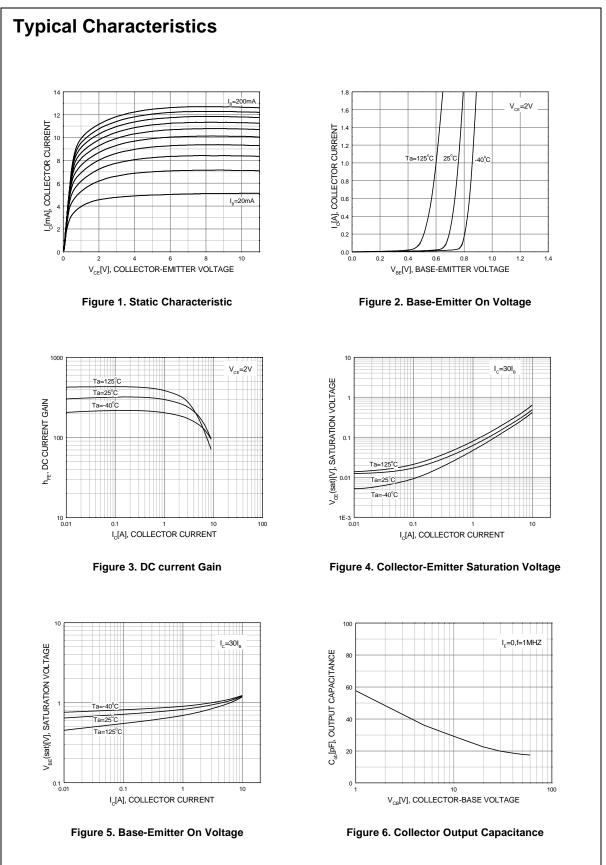
Absolute Maximum Ratings $T_{C}=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	20	V	
V _{EBO}	Emitter-Base Voltage	7	V	
I _C	Collector Current	5	А	
P _C	Collector Dissipation	0.75	W	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

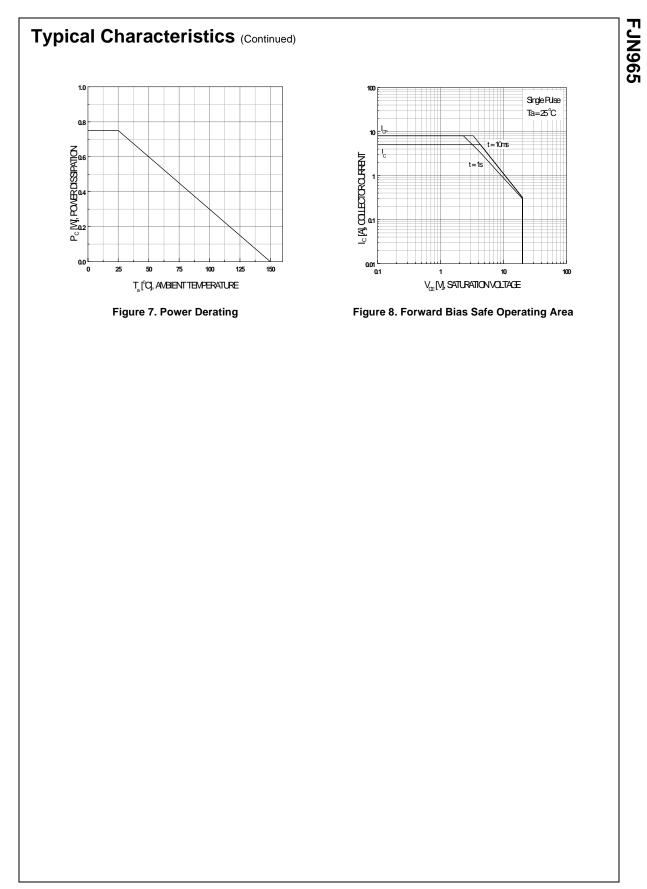
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Voltage	I _C =1mA, I _B =0	20			V
BV _{EBO}	Emitter Base Voltage	I _C =100μA, I _C =0	7			V
I _{CBO}	Collector Cut-off Current	V _{CB} =10V, I _E =0			0.1	μA
I _{CEO}	Collector Cut-off Current	V _{CE} =10V, I _B =0			1	μA
I _{EBO}	Emitter Cut-off Current	V _{EB} =7V, I _C =0			0.1	μA
h _{FE1} h _{FE2}	DC Current Gain	V_{CE} =2V, I _C =0.5A V_{CE} =2V, I _C =2A	230 150		600	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =3A, I _B =0.1A			1	V
f _T	Current Gain Band Width Product	V _{CE} =6V, I _C =50mA		150		MHz
C _{ob}	Collector Output Capacitance	V _{CB} =20V, I _E =0, f=1MHz		23		pF

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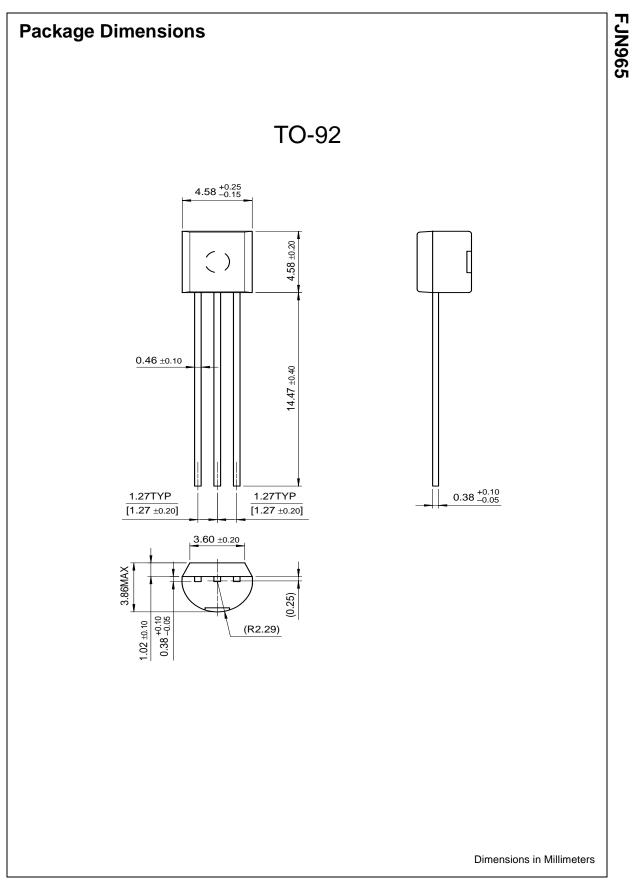


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Rev. A2, August 2002

FJN965



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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.

PRODUCT STATUS DEFINITIONS

Definition of Terms

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.