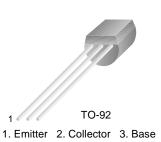
## FAIRCHILD

SEMICONDUCTOR®

### **FJN965**

#### For Output Amplifier of Electronic Flash Unit

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



## **NPN Epitaxial Silicon Transistor**

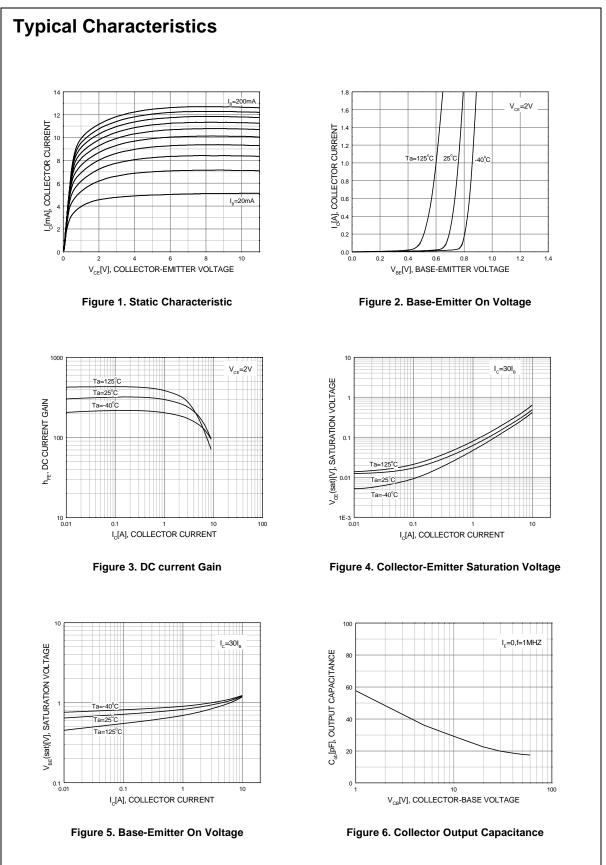
Absolute Maximum Ratings  $T_{C}=25^{\circ}C$  unless otherwise noted

Symbol	Parameter	Ratings	Units	
V <sub>CBO</sub>	Collector-Base Voltage	40	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	20	V	
V <sub>EBO</sub>	Emitter-Base Voltage	7	V	
I <sub>C</sub>	Collector Current	5	A	
P <sub>C</sub>	Collector Dissipation	0.75	W	
ТJ	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C	

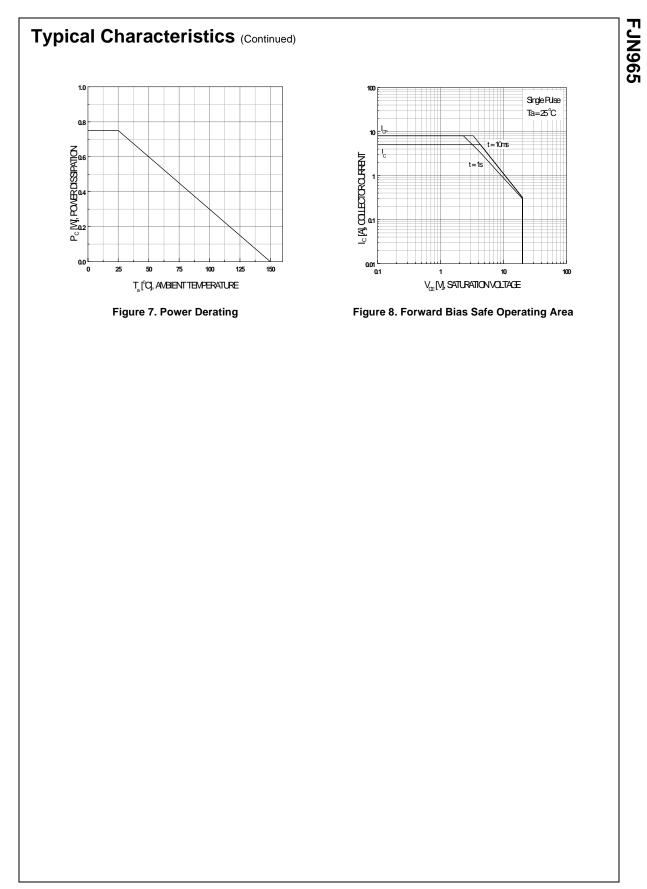
#### Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

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

## FJN965

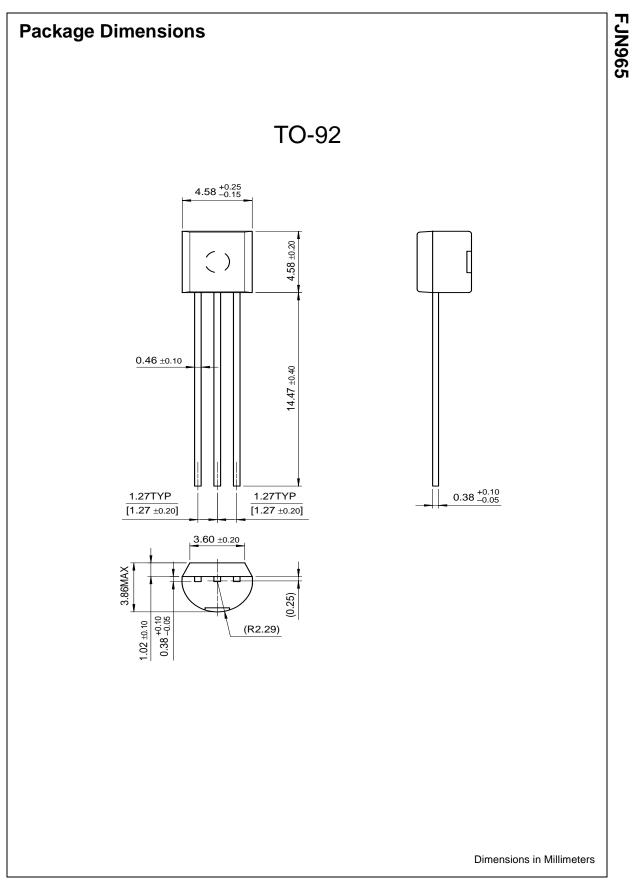


FJN965



Rev. A2, August 2002

# FJN965



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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.			



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#### FJN965 NPN Epitaxial Silicon Transistor



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#### Features

#### For Output Amplifier of Electronic Flash Unit

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Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**	
FJN965BU	Full Production	Full Production	\$0.0447	<u>TO-92</u>	3	BULK	<u>Line 1:</u> J965 <u>Line 3:</u> C&3	
FJN965TA	Full Production	Full Production	\$0.0447	<u>TO-92</u>	3	АММО	Line 1: J965 Line 3: C&3	

\* Fairchild 1,000 piece Budgetary Pricing

\*\* A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a <u>Fairchild distributor</u> to obtain samples



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